Product Datasheet

GAPDH Antibody (6C5cc) [DyLight 680]
NB600-502FR-0.2ml

Unit Size: 0.2 ml

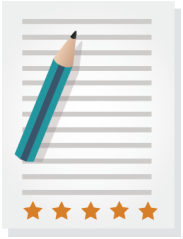
Store at 4C in the dark.

www.novusbio.com technical@novusbio.com

Publications: 11

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB600-502FR

Updated 10/23/2024 v.20.1



NB600-502FR-0.2ml

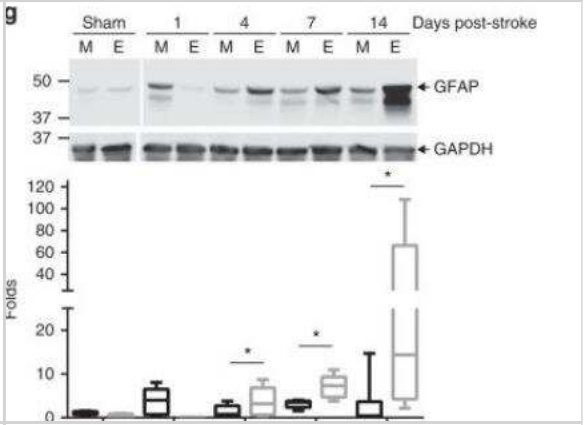
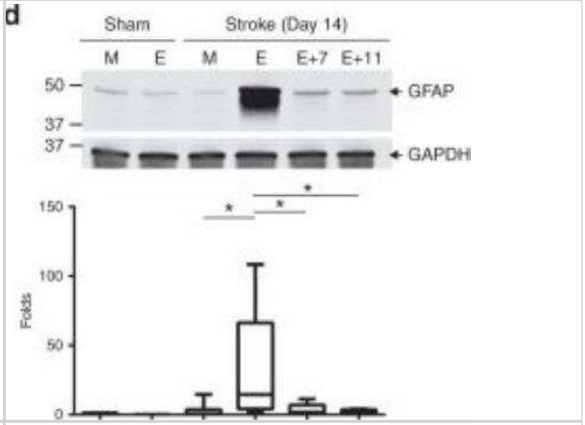
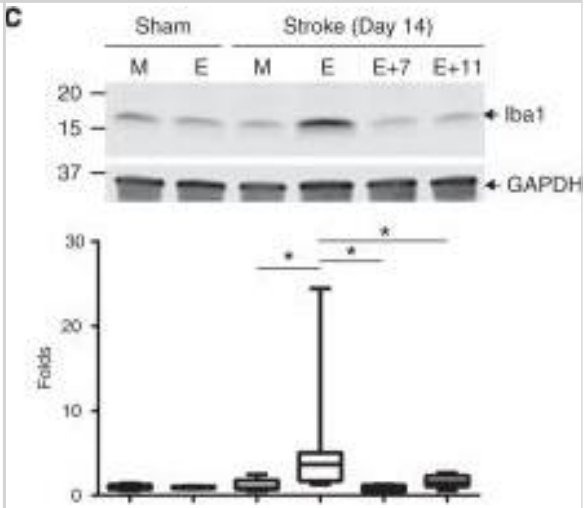
GAPDH Antibody (6C5cc) [DyLight 680]

Product Information	
Unit Size	0.2 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	6C5cc
Preservative	0.05% Sodium Azide
Isotype	IgG1
Conjugate	DyLight 680
Purity	Protein A purified
Buffer	50mM Sodium Borate
Target Molecular Weight	36 kDa

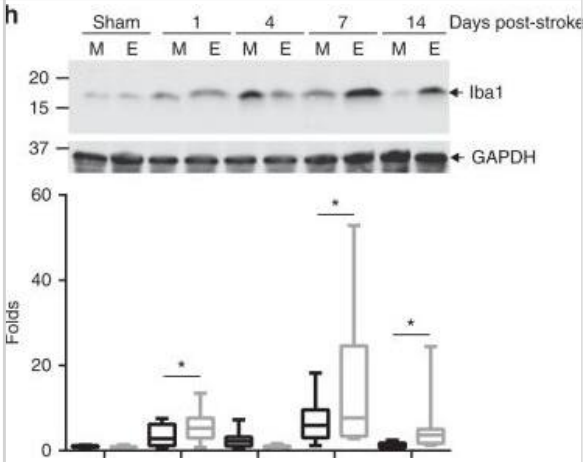
Product Description	
Host	Mouse
Gene ID	2597
Gene Symbol	GAPDH
Species	Human, Mouse, Rat, Porcine, Amphibian, Canine, Chinese Hamster, Feline, Fish, Rabbit, Bovine (Negative), Goat (Negative)
Reactivity Notes	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information. Chinese Hamster reactivity reported in scientific literature (PMID: 26115091).
Immunogen	Hybridoma clone has been derived from hybridization of Sp2/0 myeloma cells with spleen cells of Balb/c mice immunized with Rabbit GAPDH.
Notes	DyLight (R) is a trademark of Thermo Fisher Scientific Inc. and its subsidiaries.

Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Immunoassay, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot, Simple Western, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Immunohistochemistry-Paraffin, Immunoassay

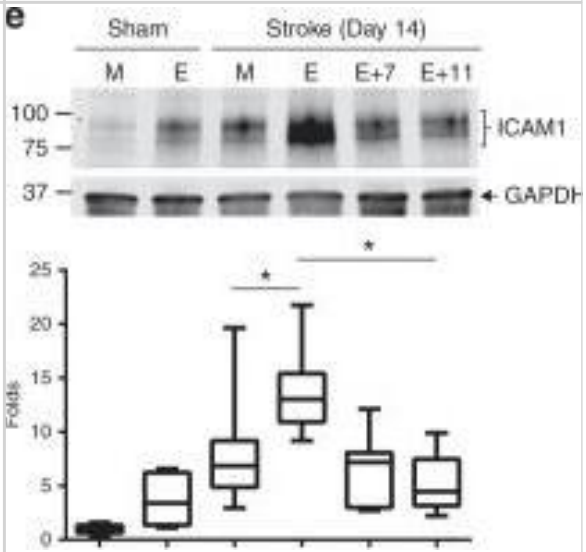
Images

Western Blot: GAPDH Antibody (6C5cc) [DyLight 680] [NB600-502FR] - Time course of GFAP (g) protein expression levels as quantified by western blotting in sham and ischemic stroke animals at days 1, 4, 7, and 14 post-stroke in mock (M) and EcoHIV-infected (E) mice. Representative blots are shown, and quantified results are illustrated on the bar graphs. GAPDH was used as a loading control. Image collected and cropped by CiteAb from the following publication (nature.com/articles/s41467-019-10046-x), licensed under a CC-BY license.	
Western Blot: GAPDH Antibody (6C5cc) [DyLight 680] [NB600-502FR] - Protein expression levels of GFAP (d), were quantified by immunoblotting in sham and ischemic stroke animals at day 14 post-stroke in mock (M) and EcoHIV-infected (E) mice that were treated with ART-7 (E+7) or ART-11 (E+11). Representative blots are shown, and quantified results are illustrated on the bar graphs. GAPDH was used as a loading control. Image collected and cropped by CiteAb from the following publication (nature.com/articles/s41467-019-10046-x), licensed under a CC-BY license.	
Western Blot: GAPDH Antibody (6C5cc) [DyLight 680] [NB600-502FR] - Effective targeting of EcoHIV diminishes post-ischemic stroke inflammation. Mice were infected, treated with ART-7 & ART-11, & subjected to ischemic stroke as in Fig. 6b, c. mRNA levels of cellular activation markers Iba1 (a) & GFAP (b) 7 days post stroke. Protein expression levels of Iba1 (c), GFAP (d), & ICAM1 (e) were quantified by immunoblotting in sham & ischemic stroke animals at day 14 post-stroke in mock (M) & EcoHIV-infected (E) mice that were treated with ART-7 (E + 7) or ART-11 (E + 11). Representative blots are shown, & quantified results are illustrated on the bar graphs. mRNA levels of anti-inflammatory markers ICAM-5 (f) & FoxP3 (g), & tissue degrading enzymes MMP2 (h) & MMP9 (i) were quantified by RT-qPCR. Impact of therapy on viral DNA genome levels was evaluated in ipsilateral hemisphere (j) & spleen (k); n = 5–16 mice per group, 2 independent experiments. Whiskers-box plots represent centerline median, with interquartile range & min-max whiskers. Other graphs represent data as mean & SEM with individual data points. Source data are provided as a Source Data file. *p < 0.05 or **p < 0.01; one-way ANOVA, followed by Tukey multiple comparison test (a, b & f–k), & unpaired t test (c–e) Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31043599), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

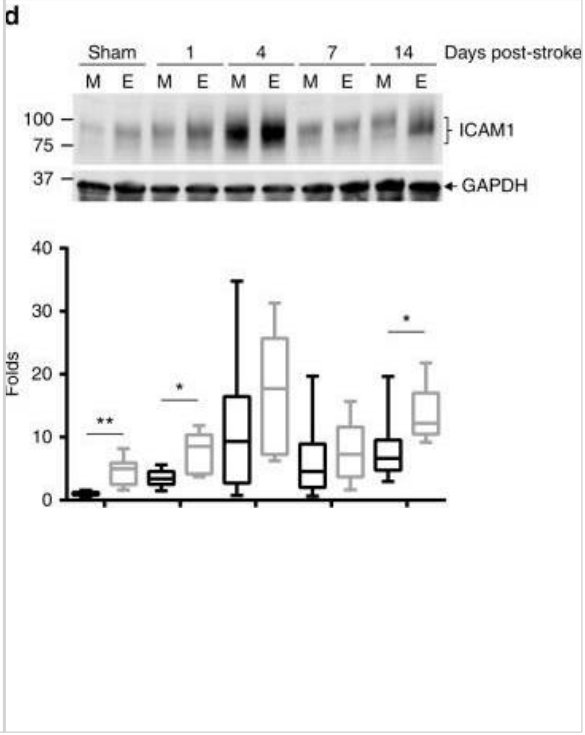
Western Blot: GAPDH Antibody (6C5cc) [DyLight 680] [NB600-502FR] - Prolonged post-ischemic stroke inflammation in EcoHIV-infected brains. Mice were infected with EcoHIV & subjected to stroke as in Fig. 1. mRNA expression of cytokines IL1β (a) & TNFα (b) chemokines CXCL1 (c) & CCL2 (d), & cellular activation markers GFAP (e) & Iba1 (f) were assessed by real-time qPCR 7 days post stroke. Sham, n = 6; Stroke, n = 12 mice per group, 3 independent experiments. Time course of GFAP (g) & Iba1 (h) protein expression levels as quantified by western blotting in sham & ischemic stroke animals at days 1, 4, 7, & 14 post-stroke in mock (M) & EcoHIV-infected (E) mice. Representative blots are shown, & quantified results are illustrated on the bar graphs. n = 5–12 mice per group, 3 independent experiments. Whiskers-box plots represent centerline median, with interquartile range & min-max whiskers. Source data are provided as a Source Data file. *p < 0.05; one-way ANOVA, followed by Tukey multiple comparison test (a–f) & unpaired t test (g, h) Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31043599), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: GAPDH Antibody (6C5cc) [DyLight 680] [NB600-502FR] - Effective targeting of EcoHIV diminishes post-ischemic stroke inflammation. Mice were infected, treated with ART-7 & ART-11, & subjected to ischemic stroke as in Fig. 6b, c. mRNA levels of cellular activation markers Iba1 (a) & GFAP (b) 7 days post stroke. Protein expression levels of Iba1 (c), GFAP (d), & ICAM1 (e) were quantified by immunoblotting in sham & ischemic stroke animals at day 14 post-stroke in mock (M) & EcoHIV-infected (E) mice that were treated with ART-7 (E + 7) or ART-11 (E + 11). Representative blots are shown, & quantified results are illustrated on the bar graphs. mRNA levels of anti-inflammatory markers ICAM-5 (f) & FoxP3 (g), & tissue degrading enzymes MMP2 (h) & MMP9 (i) were quantified by RT-qPCR. Impact of therapy on viral DNA genome levels was evaluated in ipsilateral hemisphere (j) & spleen (k); n = 5–16 mice per group, 2 independent experiments. Whiskers-box plots represent centerline median, with interquartile range & min-max whiskers. Other graphs represent data as mean & SEM with individual data points. Source data are provided as a Source Data file. *p < 0.05 or **p < 0.01; one-way ANOVA, followed by Tukey multiple comparison test (a, b & f–k), & unpaired t test (c–e) Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31043599), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: GAPDH Antibody (6C5cc) [DyLight 680] [NB600-502FR] - EcoHIV diminishes post-ischemic stroke NVU recovery. Mice were infected with EcoHIV & subjected to stroke as in Fig. 1. Brain sections were stained for laminin (a), ICAM-1 (b) & P-selectin (c) 24 h post stroke, & quantified for mean fluorescence index (MFI); n = 6 mice per group, 10 microvessels per mice, 2 independent experiments. d Time course of ICAM1 expression levels as quantified by western blotting in sham & ischemic stroke animals at days 1, 4, 7, & 14 post-stroke both in mock (M) & EcoHIV-infected (E) mice. Representative blots are shown, & quantified results from 5–12 samples per group are illustrated on the bar graphs. e Representative image (left) & quantified results (right) of infiltration of the infarct area by Lys6g immunoreactive cells (neutrophils) at 24 h post-ischemic stroke. The sections were also stained for MAP2 (neurons) & Hoechst (nuclei). Absence of MAP2 staining indicates infarct area. Data quantified from 6 mice per group, 2 independent experiments, 4 fields of view per mice at ×20 magnification; Z stack images. Whiskers-box plots represent centerline median, with interquartile range & min-max whiskers. Source data are provided as a Source Data file. **p < 0.01; ***p < 0.001; unpaired t test. a–c Scale bars: 40 µm; e scale bar: 320 µm Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31043599), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Osborne OM, Kowalczyk JM, Pierre Louis KD Brain endothelium-derived extracellular vesicles containing amyloid-beta induce mitochondrial alterations in neural progenitor cells Extracellular Vesicles and Circulating Nucleic Acids 2022-12-01 [PMID: 36649440]

Oandy Naranjo, Silvia Torices, Paul R. Clifford, Thaidy Rodriguez, Olivia M. Osborne, Destiny Tiburcio, Nikolai Fattakhov, Minseon Park, Mario Stevenson, Michal Toborek AKT signaling modulates latent viral reservoir viability in HIV-1-infected blood–brain barrier pericytes The Journal of Biological Chemistry 2023-12-01 [PMID: 38043797]

Torices S, Cabrera R, Stangis M et al. Expression of SARS-CoV-2-related receptors in cells of the neurovascular unit: implications for HIV-1 infection Journal of Neuroinflammation 2021-12-01 [PMID: 34325716] (Western Blot, Block/Neutralize)

Torices S, Teglas T, Naranjo O et al. Occludin Regulates HIV-1 Infection by Modulation of the Interferon Stimulated OAS Gene Family Molecular Neurobiology 2023-09-01 [PMID: 37209263] (Western Blot, Block/Neutralize)

Park M, Baker W, Cambow D et al. Methamphetamine Enhances HIV-Induced Aberrant Proliferation of Neural Progenitor Cells via the FOXO3-Mediated Mechanism Molecular Neurobiology 2021-11-01 [PMID: 33983546] (Western Blot, Block/Neutralize)

Torices S, Teglas T, Naranjo O et al. Occludin regulates HIV-1 infection by modulation of the interferon stimulated OAS gene family Research square 2023-01-30 [PMID: 36778388] (WB, Human)

Details:
Dilution used in WB 1:20,000

Cho HJ, Velichkovska M, Schurhoff N et al. Extracellular vesicles regulate gap junction-mediated intercellular communication and HIV-1 infection of human neural progenitor cells Neurobiol Dis 2021-05-07 [PMID: 33962010] (WB, Human)

Details:
Citation using the DyLight 680 format of this antibody.

Torices S, Cabrera R, Stangis M et al Expression of SARS-CoV-2-related Receptors in Cells of the Neurovascular Unit: Implications for HIV-1 Infection Res Sq 2021-03-03 [PMID: 33655239] (WB)

Details:
Citation using the DyLight 680 version of this antibody.

Torices S, Roberts SA, Park M et al Occludin, caveolin-1, and Alix form a multi-protein complex and regulate HIV-1 infection of brain pericytes FASEB J 2020-10-15 [PMID: 33058236] (WB, WB, Human)

Details:
Citation using the DyLight 680 version of this antibody.

Bertrand L, Meroth F, Tournebize M et al Targeting the HIV-infected brain to improve ischemic stroke outcome. Nat Commun. 2019-05-01 [PMID: 31043599] (WB, Mouse)

Details:
Citation using the DyLight 680 version of this antibody.

Cho HJ, Kuo AM, Bertrand L, Toborek M. HIV alters gap junction-mediated intercellular communication in human brain pericytes. Frontiers in Molecular Neuroscience. 2017-12-12 [PMID: 29311803] (WB, Human)

Details:
This citation used the DyLight 680 form of this antbody

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Products Related to NB600-502FR-0.2ml

NBP1-97005FR	Mouse IgG1 Isotype Control (MG1) [DyLight 680]
NB600-502IR-0.2ml	GAPDH Antibody (6C5cc) [DyLight 755]
H00002597-P02-10ug	Recombinant Human GAPDH GST (N-Term) Protein
210-TA-005	TNF-alpha [Unconjugated]

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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