Product Datasheet

TRA-1-60(R) Antibody (TRA-1-60) - BSA Free
NB100-730

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Publications: 18

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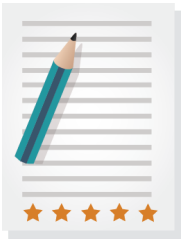
Updated 2/21/2025 v.20.1



NB100-730

TRA-1-60(R) Antibody (TRA-1-60) - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	TRA-1-60
Preservative	0.02% Sodium Azide
Isotype	IgM
Purity	IgM purified
Buffer	PBS

Product Description

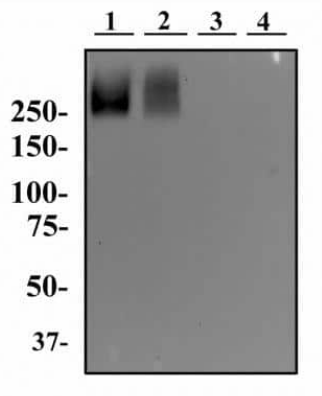
Host	Mouse
Gene ID	5420
Species	Human, Mouse (Negative)
Reactivity Notes	No immunoreactivity is seen with murine EC, EG or ES cells.
Marker	Embryonic Stem Cell Marker
Specificity/Sensitivity	Specific for the neuraminidase resistant form of the TRA-1-60 antigen that is expressed upon the surface of human teratocarcinoma stem cells (EC), human embryonic germ cells (EG) and human embryonic stem cells (ES). TRA-1-60 reacts with a sialidase-sensitive epitope.
Immunogen	Human embryonal carcinoma cell line 2102Ep.

Product Application Details

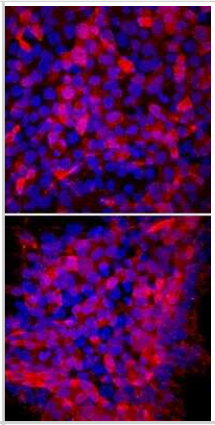
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:100-1:2000, Flow Cytometry 1:50-1:200, ELISA reported in scientific literature (PMID 30617132), Immunohistochemistry 1:50-1:200, Immunocytochemistry/ Immunofluorescence 1:50-1:200, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin reported in scientific literature (PMID 33234532)

Images

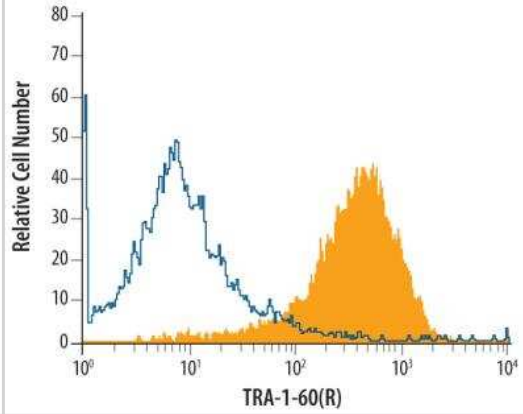
Western Blot: TRA-1-60 (R) Antibody (TRA-1-60(R)) [NB100-730] - Whole cell protein from human ES cells (lane 1), human NTERA-2 cells (lane 2), mouse embryonic fibroblasts (MEF, lane 3) and mouse V6.5 ES cells (lane 4, NBP1-97433) were separated on a 7.5% gel and transferred to PVDF membrane. The membrane was then incubated with anti-TRA1-60(R) antibody at 2 ug/ml and detected with an anti-mouse IgM secondary antibody using chemiluminescence. Note how this antibody specifically detects the TRA1-60(R) epitope only on human cells.



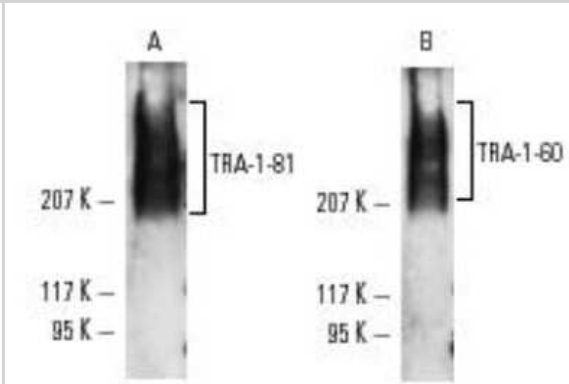
Immunocytochemistry/Immunofluorescence: TRA-1-60(R) Antibody (TRA-1-60) [NB100-730] - TRA-1-60(R) was detected in immersion fixed ADLF1 (top panel) and FAB2 (bottom panel) induced pluripotent stem cell lines using Mouse Anti-Human TRA-1-60(R) Neuraminidase Resistant Epitope Monoclonal Antibody (Catalog # NB100-730) at 10 ug/mL for 3 hours at room temperature. Cells were stained using an Anti-Mouse IgG Secondary Antibody (red) and counterstained with DAPI (blue). Specific staining was localized to cell surfaces.



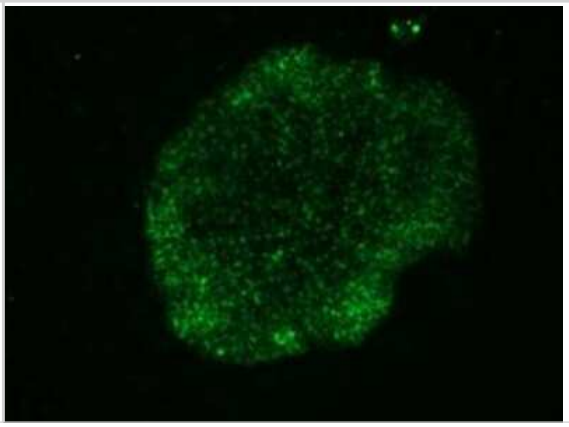
Flow Cytometry: TRA-1-60(R) Antibody (TRA-1-60) [NB100-730] - BG01V human embryonic stem cells were stained with Mouse Anti-Human TRA-1-60 Neuraminidase Resistant Epitope Monoclonal Antibody (Catalog # NB100-730, filled histogram) or isotype control antibody followed by Phycoerythrin-conjugated Anti-Mouse IgM Secondary Antibody (Catalog # F0116).



Western Blot: TRA-1-60 (R) Antibody (TRA-1-60(R)) [NB100-730] - Analysis of NB100-730 expression in NTERA-2 cl.D1 whole cell lysate.



Immunocytochemistry/Immunofluorescence: TRA-1-60 (R) Antibody (TRA-1-60(R)) [NB100-730] - Human embryonic stem cells stained with TRA-1-60 antibody (Cat# NB100-730) detected with Alexa Fluor 488 anti-mouse IgM secondary antibody.



Publications

McDowell CT, Klamer Z, Hall J et Al. Imaging Mass Spectrometry and Lectin Analysis of N-Linked Glycans in Carbohydrate Antigen-Defined Pancreatic Cancer Tissues Mol Cell Proteomics 2020-12-08 [PMID: 33581409]

Dawes P, Smullen M, Fernandez-Fontaine A et al. FlowSeq: A multiplexed quantitative approach to identify genes affecting cell type enrichment using mosaic CRISPR-Cas9 edited cerebral organoids Research Square 2022-08-01 [PMID: 36877372]

Wisniewski L, Braak S, Klamer Z et al. Heterogeneity of glycan biomarker clusters as an indicator of recurrence in pancreatic cancer Frontiers in oncology 2023-04-12 [PMID: 37124496] (IHC-P, Human)

McNeill RV, Radtke F, Nieberler M et al. Generation of four human induced pluripotent stem cells derived from ADHD patients carrying different genotypes for the risk SNP rs1397547 in the ADHD-associated gene ADGRL3 Stem cell research 2023-01-05 [PMID: 36640473] (ICC/IF, Mouse)

Details:
Dilution used in ICC 1:100

Lim ET, Chan Y, Dawes P et al. Orgo-Seq integrates single-cell and bulk transcriptomic data to identify cell type specific-driver genes associated with autism spectrum disorder Nature communications 2022-06-10 [PMID: 35688811] (FLOW, Human)

Nakano Y, Susa K, Yanagi T et al. Generation of NPHP1 knockout human pluripotent stem cells by a practical biallelic gene deletion strategy using CRISPR/Cas9 and ssODN In vitro cellular & developmental biology. Animal 2022-02-14 [PMID: 35165826]

McDowell CT, Klamer Z, Hall J, et al. Imaging Mass Spectrometry and Lectin Analysis of N-linked Glycans in Carbohydrate Antigen Defined Pancreatic Cancer Tissues Molecular & cellular proteomics : MCP 2020-11-24 [PMID: 33234532] (IHC-P, Human)

Lim E, Chan Y, Burns M et al. Data integration of bulk and single-cell transcriptomics from cerebral organoids and post-mortem brains to identify cell types and cell type specific driver genes in autism Research Square 2020-12-02 (FLOW, Human)

Barnett DM THE CA19-9 ANTIGEN AND STRA GLYCANS DEFINE INDEPENDENT PANCREATIC DUCTAL ADENOCARCINOMA SUBPOPULATIONS IMPROVING DIAGNOSTIC ACCURACY AND APPROACH TO PROGNOSTIC CLASSIFICATION Thesis 2020-01-01

Calabrese D, Roma G, Bergling S et al. Liver biopsy derived induced pluripotent stem cells provide unlimited supply for the generation of hepatocyte-like cells PLoS One. 2019-01-01 [PMID: 31465481] (ICC/IF, Human, Mouse)

Staal B, Liu Y, Barnett D et al. The sTRA Plasma Biomarker: Blinded Validation of Improved Accuracy over CA19-9 in Pancreatic Cancer Diagnosis Clin. Cancer Res. 2019-01-07 [PMID: 30617132] (ELISA, Human)

Palladino VS, Subrata NOC, Geburtig-Chiocchetti A et al. Generation of human induced pluripotent stem cell lines (hiPSC) from one bipolar disorder patient carrier of a DGKH risk haplotype and one non-risk-variant-carrier bipolar disorder patient. Stem Cell Res 2018-09-17 [PMID: 30266033] (ICC/IF, Human)

More publications at http://www.novusbio.com/NB100-730

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Products Related to NB100-730

NBL1-14562	Podocalyxin Like Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP2-62224	Mouse IgM Isotype Control (PFR-03)

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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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