

Product Datasheet

TRAILR2/TNFRSF10B Antibody - BSA Free NB100-56618

Unit Size: 0.1 mg

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

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NB100-56618

TRAILR2/TNFRSF10B Antibody - BSA Free

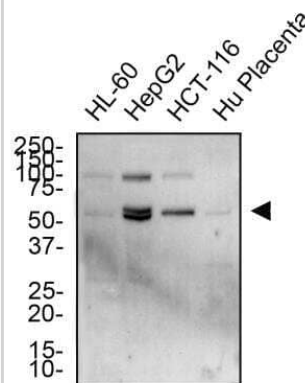
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	8795
Gene Symbol	TNFRSF10B
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 21474767).
Immunogen	Rabbit anti-DR5 polyclonal antibody was raised against a peptide corresponding to amino acids 388 to 407 (isoform 2) of human DR5 precursor (1,2). The same sequence is found in isoform 1 at amino acids 417-436.

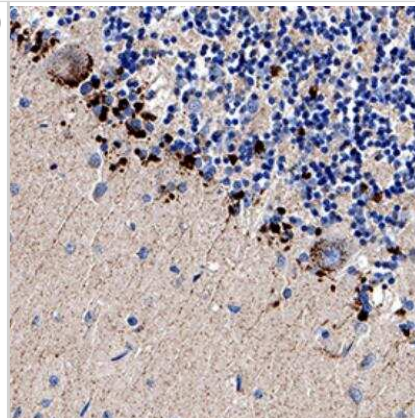
Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 5 ug/ml, Flow Cytometry 1:20-1:2000, Immunohistochemistry 1:200. Use reported in scientific literature (PMID 27740879), Immunocytochemistry/ Immunofluorescence 1:10-1:500. Use reported in scientific literature (Georgakis et al (2005)), Immunohistochemistry-Paraffin reported in scientific literature (Younes et al (2006)), Flow (Cell Surface) reported in scientific literature (KOYAMA (2003); PMID 16426839)

Images

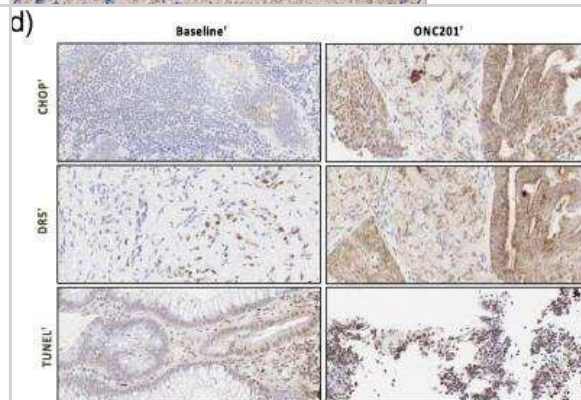
Western Blot: TRAILR2/TNFRSF10B Antibody [NB100-56618] - TRAIL R2/TNFRSF10B Antibody [NB100-56618] - Total protein from HL-60, HepG2, HCT-116 and human placenta was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-TRAIL R2 in 1% non-fat milk in TBST and detected with an anti-rabbit HRP secondary antibody using chemiluminescence.



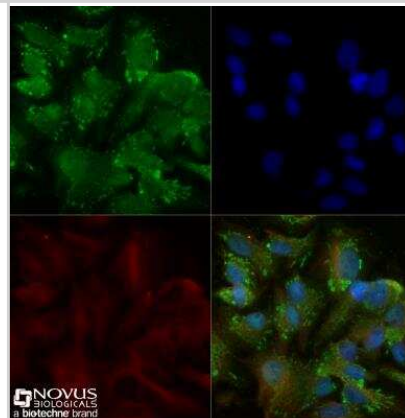
Immunohistochemistry-Paraffin: TRAILR2/TNFRSF10B Antibody [NB100-56618] - TRAIL R2/TNFRSF10B Antibody [NB100-56618] - Analysis of a formalin fixed paraffin-embedded (FFPE) human brain cerebellum using 1:200 conc. of TRAIL R2/TNFRSF10B antibody on a Bond Rx autostainer (Leica Biosystems). The assay involved 30 minutes of heat induced antigen retrieval (HIER) using 10mM sodium citrate buffer (pH 9.0) and endogenous peroxidase quenching with peroxide block. The sections were incubated with primary antibody for 15 minutes and Bond Polymer Refine Detection (Leica Biosystems) with DAB was used for signal development followed by counterstaining with hematoxylin. Cytoplasmic staining was observed in the Purkinje cell layer.



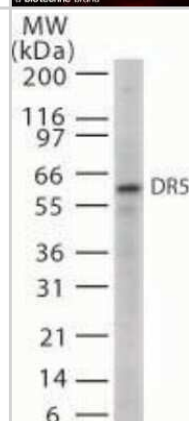
Immunohistochemistry: TRAILR2/TNFRSF10B Antibody [NB100-56618] - Pharmacodynamic assays for ONC201. IHC analyses of CHOP, TRAILR2/TNFRSF10B, and double-stranded DNA breaks (TUNEL) in baseline and ONC201-treated biopsies for an endometrial cancer patient. The biopsy was done 9.8 months after starting ONC201 treatment (7 days after the most recent ONC201 dose). Image collected and cropped by CiteAb from the following publication (<https://jtc.biomedcentral.com/articles/10.1186/s40425-019-0599-8>) licensed under a CC-BY license.



Immunocytochemistry/Immunofluorescence: TRAIL R2/TNFRSF10B Antibody [NB100-56618] - HepG2 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-TRAIL R2 (H76) at 5ug/ml overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) at a 1:500 dilution. Alpha tubulin (DM1A) NB100-690 was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



Western Blot: TRAILR2/TNFRSF10B Antibody [NB100-56618] - TRAIL R2/TNFRSF10B Antibody [NB100-56618] - Analysis using the Azide Free version of NB100-56618. Detection of 20 ug of whole cell lysates from HL60 cells with anti-TRAIL-R2 at 5 ug/ml.



Publications

J Joung, PC Kirchgatte, A Singh, JH Cho, SP Nety, RC Larson, RK Macrae, R Deasy, YY Tseng, MV Maus, F Zhang CRISPR activation screen identifies BCL-2 proteins and B3GNT2 as drivers of cancer resistance to T cell-mediated cytotoxicity Nature Communications, 2022-03-25;13(1):1606. 2022-03-25 [PMID: 35338135]

Haagsma J, Kolendowski B, Buensuceso A et al. Gain-of-function p53(R175H) blocks apoptosis in a precursor model of ovarian high-grade serous carcinoma *Scientific Reports* 2023-07-14 [PMID: 37452087]

Xue M, Ge Y et al Apoptosis is induced by docosaehaenoic acid in breast cancer cells via death receptor and mitochondria-mediated pathways *Mol Med Rep* 2017-06-07 [PMID: 28586001] (WB, Human)

Details:

Citation using the Azide Free version of this antibody.

Chen L, Hao M, Yan J et al. Citrus-derived DHCP inhibits mitochondrial complex II to enhance TRAIL sensitivity via ROS-induced DR5 upregulation *The Journal of biological chemistry* 2021-03-04 [PMID: 33676890] (FLOW, Human)

Arrillaga-Romany I, Odia Y et al. Biological activity of weekly ONC201 in adult recurrent glioblastoma patients. *Neuro Oncol* 2020-11-01 [PMID: 31702782] (IF/IHC, Human)

Stein M N, Malhotra J et al. Safety and enhanced immunostimulatory activity of the DRD2 antagonist ONC201 in advanced solid tumor patients with weekly oral administration. *J Immunother Cancer* 2019-05-22 [PMID: 31118108] (IF/IHC, Human)

Eid MA, Lewis RW, Kumar MV. Mifepristone pretreatment overcomes resistance of prostate cancer cells to tumor necrosis factor alpha-related apoptosis-inducing ligand (TRAIL). *Mol Cancer Ther.* [PMID: 12492116]

Details:

Citation using the Azide Free form of this antibody.

Koyama S, Koike N, Adachi S. Expression of TNF-related apoptosis-inducing ligand (TRAIL) and its receptors in gastric carcinoma and tumor-infiltrating lymphocytes: a possible mechanism of immune evasion of the tumor. *J Cancer Res Clin Oncol* [PMID: 11862476]

Details:

Used the Azide Free form of this antibody.

Jin Z, McDonald ER 3rd, Dicker DT et al. Deficient tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) death receptor transport to the cell surface in human colon cancer cells selected for resistance to TRAIL-induced apoptosis. *J Biol Chem* [PMID: 15155747]

Details:

Used the Azide Free form of this antibody.

Dandrea T, Hellmold H, Jonsson C et al. The transcriptosomal response of human A549 lung cells to a hydrogen peroxide-generating system: relationship to DNA damage, cell cycle arrest, and caspase activation. *Free Radic Biol Med* [PMID: 15019973]

Details:

Used the Azide Free form of this antibody.

Kim K, Nakagawa H, Fei P et al. Targeting Bcl-xL in esophageal squamous cancer to sensitize to chemotherapy plus TRAIL-induced apoptosis while normal epithelial cells are protected by blockade of caspase 9. *Cell Death Differ* [PMID: 14752513]

Details:

Used the Azide Free form of this antibody.

Kandasamy K, Srinivasula SM, Alnemri ES et al. Involvement of proapoptotic molecules Bax and Bak in tumor necrosis factor-related apoptosis-inducing ligand (TRAIL)-induced mitochondrial disruption and apoptosis: differential regulation of cytochrome c and Smac/DIABLO release. *Cancer Res* [PMID: 12670926]

Details:

Used the Azide Free form of this antibody.

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Products Related to NB100-56618

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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
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