

# Product Datasheet

## TRAIL/TNFSF10 Antibody (55B709.3) - BSA Free NB100-56518SS

Unit Size: 0.025 mg

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

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### Publications: 9

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**NB100-56518SS**

TRAIL/TNFSF10 Antibody (55B709.3) - BSA Free

Product Information	
Unit Size	0.025 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	55B709.3
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS

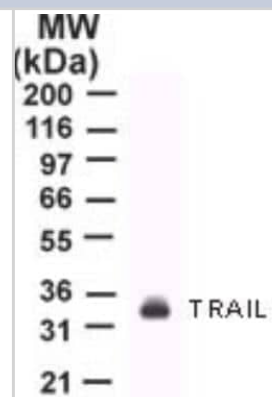
Product Description	
Description	Novus Biologicals Mouse TRAIL/TNFSF10 Antibody (55B709.3) - BSA Free (NB100-56518) is a monoclonal antibody validated for use in IHC and WB. Anti-TRAIL/TNFSF10 Antibody: Cited in 9 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	8743
Gene Symbol	TNFSF10
Species	Human
Reactivity Notes	Predicted to react with Canine and Feline.
Immunogen	This monoclonal antibody was raised against a peptide corresponding to amino acids 17-35 of human TRAIL. This peptide sequence has been shown to be involved in TRAIL and DR5 (TRAIL-R2) interaction.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 1-2 ug/ml, Immunohistochemistry, Immunohistochemistry-Paraffin 5 ug/ml
Application Notes	In Jurkat, a 32 kDa band, which represents a membrane bound form of TRAIL, is observed.

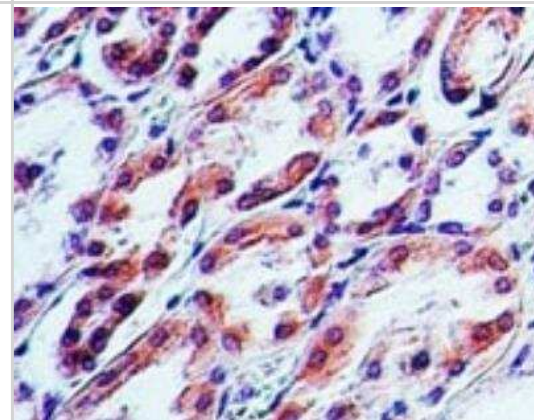


**Images**

Western Blot: TRAIL/TNFSF10 Antibody (55B709.3) [NB100-56518] - Analysis of TRAIL in Jurkat lysate



Immunohistochemistry-Paraffin: TRAIL/TNFSF10 Antibody (55B709.3) [NB100-56518] - Analysis of TRAIL in human kidney using TRAIL antibody at 5 ug/ml.



## Publications

Jung BK, An YH, Jang SH et al. The tumor suppressive effect and apoptotic mechanism of TRAIL gene-containing recombinant NDV in TRAIL-resistant colorectal cancer HT-29 cells and TRAIL-nonresistant HCT116 cells, with each cell bearing a mouse model Cancer medicine 2023-10-16 [PMID: 37843231] (WB)

Details:

Dilution 1:1000

Sullivan Gp, O'Connor H, Henry Cm Et Al. TRAIL Receptors Serve as Stress-Associated Molecular Patterns to Promote ER-Stress-Induced Inflammation Dev. Cell 2020-03-23 [PMID: 32109381] (KD, WB, Human)

Iurlaro R, Puschel F, Leon-Annicchiarico CL et al. Glucose deprivation induces ATF4-mediated apoptosis through TRAIL death receptors. Mol. Cell. Biol. 2017-02-27 [PMID: 28242652] (WB, Human)

Toriyama S, Horinaka M, Yasuda S et al. A histone deacetylase inhibitor OBP-801 and celecoxib synergistically inhibit the cell growth with apoptosis via a DR5-dependent pathway in bladder cancer cells Mol. Cancer Ther. 2016-07-12 [PMID: 27406983] (WB)

Leonardi R, Almeida LE, Rusu M et al. Tumor necrosis factor-related apoptosis-inducing ligand expression correlates to temporomandibular joint disk degeneration. J Craniofac Surg. 2011-03-01 [PMID: 21403533]

Huang SC, Tsai HF, Tzeng HT et al. Lipid raft assembly and Lck recruitment in TRAIL costimulation mediates NF-kB activation and T cell proliferation. J Immunol. 2011-01-15 [PMID: 21160038] (WB)

Details:

WB: Fig 6 (Jurkat).Note: The specificity of the antibody was validated with TRAIL siRNA in Jurkat by WB in Fig 6. TRAIL siRNA knocked down endogeneous TRAIL expression in Jurkat by approximately two thirds.

Lamas B, Goncalves-Mendes N, Nachat-Kappes R et al. Leptin modulates dose-dependently the metabolic and cytolytic activities of NK-92 cells. J Cell Physiol. 2013-06-01 [PMID: 23129404]

Muller DB, Raftery MJ, Kather A et al. Frontline: Induction of apoptosis and modulation of c-FLIPL and p53 in immature dendritic cells infected with herpes simplex virus. Eur J Immunol. 2004-04-01 [PMID: 15048704]

Jin F, Liu X, Zhou Z et al. Activation of nuclear factor-kappaB contributes to induction of death receptors and apoptosis by the synthetic retinoid CD437 in DU145 human prostate cancer cells. Cancer Res. 2005-07-15 [PMID: 16024638] (WB)

Details:

IMGEX antibodies cited for WB: 1. Caspase-3 mAb, clone 31A1067 (IMG-144A): Fig 3C, DU145 prostate adenocarcinoma cells. 2. DcR1 pAb (IMG-245-1/IMG-245-2): Fig 6C, DcR1 overexpressing DU145 cells. Note: The specificity of the DcR1 pAb was validated in Dc

## Procedures

### Western Blot Protocol for TRAIL/TNFSF10 Antibody (NB100-56518)

#### Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 10-25 ug of total protein per lane.
2. Transfer proteins to PVDF membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain the membrane with Ponceau S (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot TBS -0.05% Tween 20 (TBST).
5. Block the membrane in 5% Non-fat milk in TBST (blocking buffer) for at least 1 hour.
6. Wash the membrane in TBST three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate overnight at 4C with gentle rocking.
8. Wash the membrane in TBST three times for 10 minutes each.
9. Incubate the membrane in diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) for 1 hour at room temperature.
10. Wash the blot in TBST three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturer's instructions.





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### **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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