

# Product Datasheet

## TRAILR2/TNFRSF10B Antibody - Azide Free NB100-55744

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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[technical@novusbio.com](mailto:technical@novusbio.com)

**Publications: 19**

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**NB100-55744**

TRAILR2/TNFRSF10B Antibody - Azide Free

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Protein G purified
Buffer	PBS

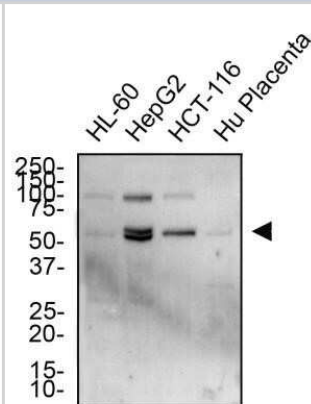
Product Description	
Host	Rabbit
Gene ID	8795
Gene Symbol	TNFRSF10B
Species	Human, Mouse
Immunogen	Rabbit anti-DR5 polyclonal antibody was raised against a peptide corresponding to amino acids 388 to 407 (isoform 2) of human DR5 precursor (1,2). The same sequence is found in isoform 1 at amino acids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

Product Application Details	
Applications	Western Blot, Electron Microscopy, Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 5 ug/ml, Flow Cytometry 1ul/1 million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin, Electron Microscopy reported in scientific literature (PMID 16426839), Flow (Cell Surface) reported in scientific literature (PMID 16426839)

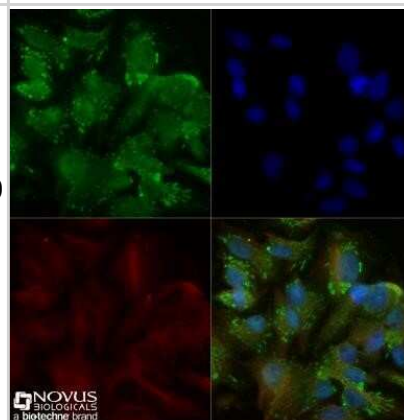


## Images

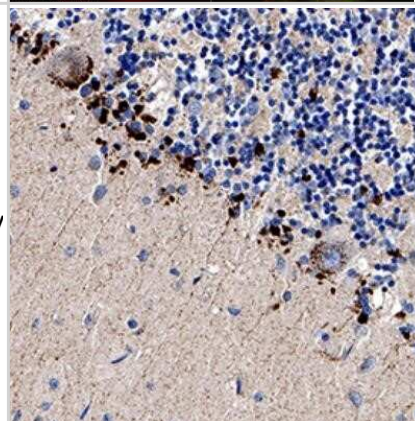
**Western Blot: TRAILR2/TNFRSF10B Antibody - Azide Free [NB100-55744]** - Total protein from HL-60, HepG2, HCT-116 and human placenta was separated on a 12% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-TRAIL R2 in 1% non-fat milk in TBST and detected with an anti-rabbit HRP secondary antibody using chemiluminescence. Image using the standard format of this product.



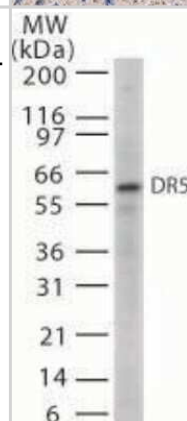
**Immunocytochemistry/Immunofluorescence: TRAILR2/TNFRSF10B Antibody - Azide Free [NB100-55744]** - HepG2 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with anti-TRAIL R2 (H76) at 5ug/ml overnight at 4C 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. Image using the standard format of this product.



**Immunohistochemistry-Paraffin: TRAILR2/TNFRSF10B Antibody - Azide Free [NB100-55744]** - 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. Image using the standard format of this product.



**Western Blot: TRAILR2/TNFRSF10B Antibody - Azide Free [NB100-55744]** - Analysis of 20 ug of whole cell lysates from HL60 cells with anti-TRAIL R2/TNFRSF10B at 5 ug/ml.



## Publications

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

Details:

Citation using the Azide Free version of this antibody.

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. Flow cytometric measurement of tumor necrosis factor-related apoptosis-inducing ligand and its receptors in gastric epithelium and infiltrating mucosal lymphocytes in Helicobacter pylori-associated gastritis. J Gastroenterol Hepatol. 2003-07-01 [PMID: 12795746] (FLOW)

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.

Basile JR, Zacny V, Munger K. The cytokines tumor necrosis factor-alpha (TNF-alpha ) and TNF-related apoptosis-inducing ligand differentially modulate proliferation and apoptotic pathways in human keratinocytes expressing the human papillomavirus-16 E7 oncoprotein. J Biol Chem. 2001-06-22 [PMID: 11306566]

Details:

WB DR5/Apo2/TRAIL-R2/TRAILR2/TRICK2/KILLER (IMG-120A) and DcR2/TRAIL-R4/TRUNDD (IMG-121). Human keratinocytes (HFK) cells expressing HPV-16 EF (human papillomavirus), Fig 6.

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.

Younes M, Georgakis GV, Rahmani M et al. Functional expression of TRAIL receptors TRAIL-R1 and TRAIL-R2 in esophageal adenocarcinoma. Eur J Cancer. 2006-03-01 [PMID: 16426839] (IHC-P, Flow-CS, WB)

Details:

IHC-paraffin: formalin-fixed, paraffin-embedded tissue sections and cell line), (WB: cell lines), (Flow-cell surface: cell lines).

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.

Cuello M, Ettenberg SA, Clark AS et al. Down-regulation of the erbB-2 receptor by trastuzumab (herceptin) enhances tumor necrosis factor-related apoptosis-inducing ligand-mediated apoptosis in breast and ovarian cancer cell lines that overexpress erbB-2. *Cancer Res* [PMID: 11406568]

Details:

Used the Azide Free form of this antibody.

Wang S, Ren W, Liu J et al. TRAIL and doxorubicin combination induces proapoptotic and antiangiogenic effects in soft tissue sarcoma in vivo. *Clin Cancer Res*. 2010-05-01 [PMID: 20406839] (IHC-P, Human)

Details:

DR5/TRAILR2 (IMG-120A): IHC (paraffin), Human STS cell lines HT1080 and SkLMS1, Fig 1 and 2.

More publications at <http://www.novusbio.com/NB100-55744>





### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NB100-55744**

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NB800-PC2	Jurkat Whole Cell Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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