

# Product Datasheet

## TRAILR4/TNFRSF10D/DcR2 Antibody - BSA Free NBP1-76985

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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**Publications: 20**

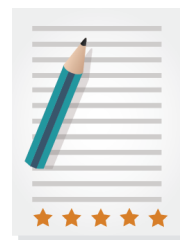
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**NBP1-76985**

TRAILR4/TNFRSF10D/DcR2 Antibody - BSA Free

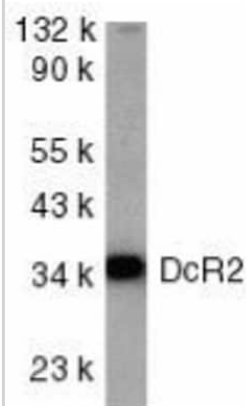
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	36 kDa

Product Description	
Host	Rabbit
Gene ID	8793
Gene Symbol	TNFRSF10D
Species	Human, Mouse, Rat
Immunogen	Antibody was raised against a 15 amino acid peptide near the center of human DcR2. The immunogen is located within amino acids 230 - 280 of DcR2. Amino Acid Squence: GGPERVHRVLFRRRS

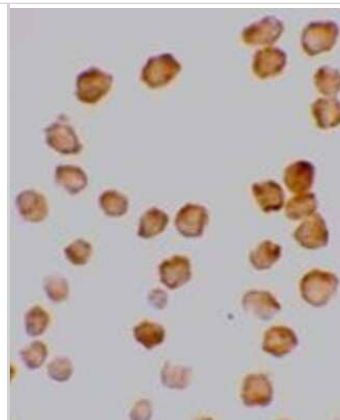
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Flow (Cell Surface), Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1 ug/ml, Flow Cytometry, ELISA 1:100-1:2000, Immunohistochemistry 2.5 ug/ml, Immunocytochemistry/ Immunofluorescence 10 -20 ug/ml, Immunohistochemistry-Paraffin 2.5 ug/ml, Flow (Cell Surface)
Application Notes	Use in FLOW reported in scientific literature (PMID: 12795746). Use in Flow-cell surface reported in scientific literature (PMID: 12173037).

**Images**

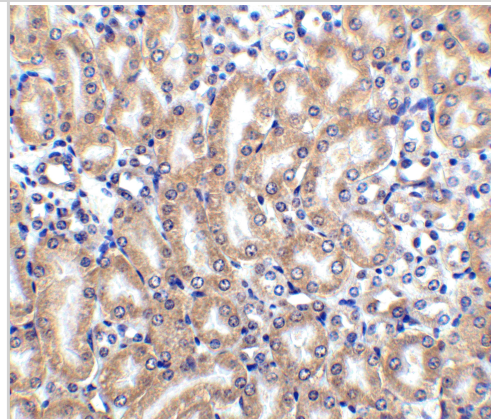
Western Blot: TRAILR4/TNFRSF10D/DcR2 Antibody [NBP1-76985] - Analysis of 50 ug of whole cell lysate from HeLa cells with anti-DcR2 at 1:1000 dilution.



Immunocytochemistry/Immunofluorescence:  
TRAILR4/TNFRSF10D/DcR2 Antibody [NBP1-76985] - Staining of HeLa cells using DcR2 antibody at 10ug/ml.

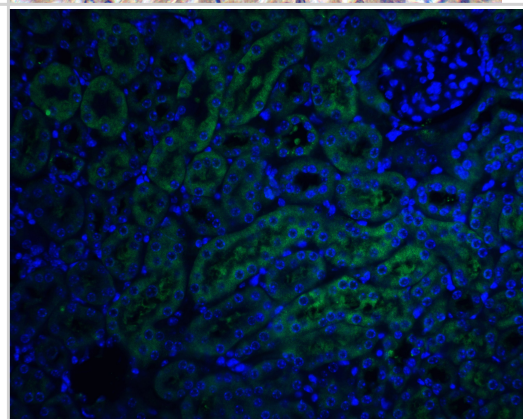


Immunohistochemistry: TRAILR4/TNFRSF10D/DcR2 Antibody - BSA Free [NBP1-76985] - Immunohistochemistry of TRAILR4/TNFRSF10D/DcR2 in mouse kidney node tissue with TRAILR4/TNFRSF10D/DcR2 antibody at 2.5 ug/ml.

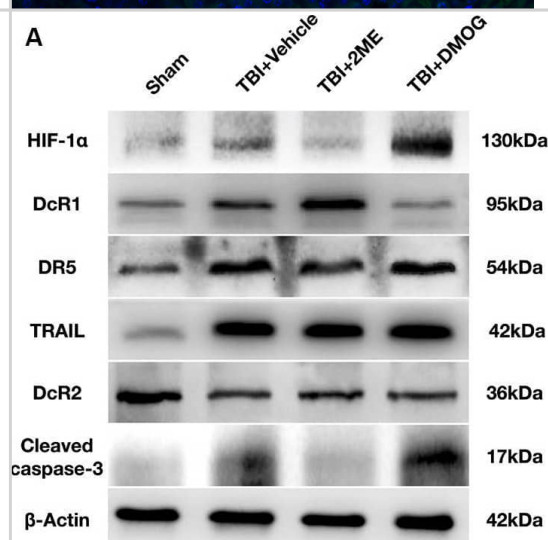


Immunocytochemistry/ Immunofluorescence:  
TRAILR4/TNFRSF10D/DcR2 Antibody - BSA Free [NBP1-76985] - Immunofluorescence of TRAILR4/TNFRSF10D/DcR2 in mouse kidney tissue with TRAILR4/TNFRSF10D/DcR2 antibody at 20 ug/ml.

Green: TRAILR4/TNFRSF10D/DcR2 Antibody  
Blue: DAPI staining



Effects of 2ME and DMOG administration on TRAIL pathway and neuronal apoptosis 72 h after TBI. (A) Representative Western blot images. (B) Densitometric quantification of HIF-1 $\alpha$ . (C) Densitometric quantification of DcR1. (D) Densitometric quantification of DR5. (E) Densitometric quantification of TRAIL. (F) Densitometric quantification of DcR2. (G) Densitometric quantification of cleaved caspase-3. (H) Quantification of DcR1-positive cells. (I) Representative microphotographs of immunofluorescence staining showing localization of DcR1 (red) and NeuN (green) in injured cerebral cortex after TBI. Scale bar = 100  $\mu$ m. Arrow indicates the DcR1 positive cell. \* $p < 0.05$  vs. sham; # $p < 0.05$  vs. TBI + Vehicle; & $p < 0.05$  vs. TBI + 2ME; ns, no significance vs. sham. N = 6 per group. Data are represented as mean  $\pm$  SD. \* $p < 0.05$  vs. TBI + Vehicle. One-way ANOVA, Tukey's post hoc test. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32848609>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Fang Y, Lu J, Wang X et al. HIF-1 alpha Mediates TRAIL-Induced Neuronal Apoptosis via Regulating DcR1 Expression Following Traumatic Brain Injury *Front Cell Neurosci* 2020-08-03 [PMID: 32848609] (WB, Rat)

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)

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] (WB, Human)

### Details:

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

Mitsiades CS, Treon SP, Mitsiades N et al. TRAIL/Apo2L ligand selectively induces apoptosis and overcomes drug resistance in multiple myeloma: therapeutic applications. *Blood.* 2001-08-01 [PMID: 11468181]

Gupta SC, Francis SK, Nair MS et al. Azadirone, a Limonoid Tetranortriterpene, Induces Death Receptors and Sensitizes Human Cancer Cells to Tumor Necrosis Factor-related Apoptosis-inducing Ligand (TRAIL) through a p53 Protein-independent Mechanism: EVIDENCE FOR THE ROLE OF THE ROS-ERK-CHOP-DEATH RECEPTOR PATHWAY. *J Biol Chem* 2013-11-08 [PMID: 24078627] (WB, Human)

Mitsiades N, Poulaki V, Tseleni-Balafouta S et al. Thyroid carcinoma cells are resistant to FAS-mediated apoptosis but sensitive to tumor necrosis factor-related apoptosis-inducing ligand. *Cancer Res.* 2000-08-01 [PMID: 10945619]

Allen JE, Ferrini R, Dicker DT et al. Targeting TRAIL death receptor 4 with trivalent DR4 Atrimer complexes. *Mol Cancer Ther.* 2012-10-01 [PMID: 22802267]

### Details:

Antibodies cited: 1. DR5 (IMG-120A): Flow (cell surface) 2. DR4 (IMG-141): Flow (cell surface, HCT116 cells), Supplementary Fig. 5. 3. DcR2 (IMG-121-1): WB (SW620 and HCT15 cells), Supplementary Fig. 4.

Lunghi P, Giuliani N, Mazzera L et al. Targeting MEK/MAPK signal transduction module potentiates ATO-induced apoptosis in multiple myeloma cells through multiple signaling pathways. *Blood.* 2008-09-15 [PMID: 18583568] (WB, Human)

### Details:

1. p73 (IMG-246): WB (human myeloma cell lines (HMCLs) XG-6 and XG-1), Fig. 4Ci. 2. p73 (deltaNp73) [IMG-313A]: WB (HMCLs), Fig. 4Ai. 3. DcR2 (IMG-121): WB (HMCLs), Fig. 5A.

Fan QL, Zou WY, Song LH et al. Synergistic antitumor activity of TRAIL combined with chemotherapeutic agents in A549 cell lines in vitro and in vivo. *Cancer Chemother Pharmacol.* 2005-02-01 [PMID: 15290100]

Zhang HY, Wang HQ, Liu HM et al. Regulation of tumor necrosis factor-related apoptosis-inducing ligand-induced apoptosis by DJ-1 in thyroid cancer cells. *Endocr Relat Cancer.* 2008-06-01 [PMID: 18430896] (WB, Human)

### Details:

WB (human thyroid cells).

Poulaki V, Mitsiades CS, Kotoula V et al. Regulation of Apo2L/tumor necrosis factor-related apoptosis-inducing ligand-induced apoptosis in thyroid carcinoma cells. *Am J Pathol.* 2002-08-01 [PMID: 12163389]

Nagane M, Shimizu S, Mori E et al. Predominant antitumor effects by fully human anti-TRAIL-receptor 2 (DR5) monoclonal antibodies in human glioma cells in vitro and in vivo. *Neuro Oncol.* 2010-07-01 [PMID: 20511188] (WB, Human)

### Details:

Products cited: 1. DcR2 (IMG-121-1): WB (human glioma cell lines), Fig 4B. 2. DcR1 (IMG-245-1): WB (human glioma cell lines), Fig 4B.



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### **Products Related to NBP1-76985**

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NBP1-76985PEP	TRAILR4/TNFRSF10D/DcR2 Antibody Blocking Peptide
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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