

# Product Datasheet

## TRAILR1/TNFRSF10A Antibody (32A1380) - BSA Free NB100-56747

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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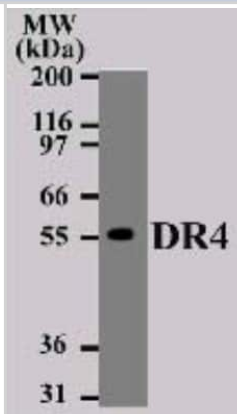
**NB100-56747**

TRAILR1/TNFRSF10A Antibody (32A1380) - BSA Free

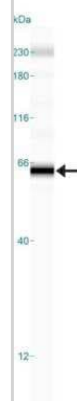
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	32A1380
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	8797
<b>Gene Symbol</b>	TNFRSF10A
<b>Species</b>	Human
<b>Immunogen</b>	This monoclonal antibody was raised against a peptide corresponding to amino acid 2 to 21 of human DR4.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Simple Western, Flow Cytometry, Flow (Cell Surface), Flow (Intracellular), Immunocytochemistry/Immunofluorescence, CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot 2-4 ug/ml, Simple Western 20 ug/ml, Flow Cytometry 1:20-1:2000, Immunocytochemistry/Immunofluorescence reported in scientific literature (PMID 26044191), Flow (Cell Surface) reported in scientific literature (PMID 18004565), Flow (Intracellular) reported in scientific literature (PMID 17541421), CyTOF-ready
<b>Application Notes</b>	<p>A 57 kDa band should be observed. This antibody is routinely tested by western blot analysis. For other applications, please refer to appropriate published references for more information.</p> <p>In Simple Western only 10 - 15 ul of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue. This antibody is CyTOF ready.</p>

## Images

Western Blot: TRAIL R1/TNFRSF10A Antibody (32A1380) [NB100-56747] - Analysis of DR4 in Daudi cell lysate using DR4 antibody at 2 ug/ml. Goat anti-mouse Ig HRP secondary antibody and PicoTect ECL substrate solution were used for this test.



Simple Western: TRAIL R1/TNFRSF10A Antibody (32A1380) [NB100-56747] - Simple Western lane view shows a specific band for TRAIL R1 in 0.5 mg/ml of Daudi lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. \* Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody



## Publications

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)

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.

Foster KA, Jane EP, Premkumar DR et al. NVP-BKM120 potentiates apoptosis in tumor necrosis factor-related apoptosis-inducing ligand-resistant glioma cell lines via upregulation of Noxa and death receptor 5 *Int. J. Oncol.* 2015-06-05 [PMID: 26044191] (ICC/IF, Human)

Abdulghani Junaid, Allen Joshua E, Dicker David T et al. Sorafenib sensitizes solid tumors to Apo2L/TRAIL and Apo2L/TRAIL receptor agonist antibodies by the Jak2-Stat3-Mcl1 axis. *PLoS One.* 2013-01-01 [PMID: 24086526] (Human)

Qiu F, Hu M, Tang B, Liu X et al. Annexin V-TRAIL fusion protein is a more sensitive and potent apoptotic inducer for cancer therapy. *Sci Rep* 2013-12-20 [PMID: 24356445] (WB, Human)

Shigeno M, Nakao K, Ichikawa T et al. Interferon-alpha sensitizes human hepatoma cells to TRAIL-induced apoptosis through DR5 upregulation and NF-kappa B inactivation. *Oncogene.* 2003-03-20 [PMID: 12642868]

Lu G, Janjic BM, Janjic J et al. Innate direct anticancer effector function of human immature dendritic cells. II. Role of TNF, lymphotoxin-alpha(1)beta(2), Fas ligand, and TNF-related apoptosis-inducing ligand. *J Immunol.* 2002-02-15 [PMID: 11823516]

Krishnamoorthy B, Darnay B, Aggarwal B et al. Glioma cells deficient in urokinase plasminogen activator receptor expression are susceptible to tumor necrosis factor-alpha-related apoptosis-inducing ligand-induced apoptosis. *Clin Cancer Res.* 2001-12-01 [PMID: 11751520]

Sridhar S, Ali AA, Liang Y et al. Differential expression of members of the tumor necrosis factor alpha-related apoptosis-inducing ligand pathway in prostate cancer cells. *Cancer Res.* 2001-10-01 [PMID: 11585752]

Le Poole IC, ElMasri WM, Denman CJ et al. Langerhans cells and dendritic cells are cytotoxic towards HPV16 E6 and E7 expressing target cells. *Cancer Immunol Immunother.* 2008-06-01 [PMID: 18004565] (Flow - CS, Human)

### Details:

Flow (cell surface), human dendritic cells and langerhans cells, Fig. 4A.

Park S, Cho DH, Andera L et al. Curcumin enhances TRAIL-induced apoptosis of breast cancer cells by regulating apoptosis-related proteins. *Mol Cell Biochem* 2013-11-01 [PMID: 23846485] (WB, Human)

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.

More publications at <http://www.novusbio.com/NB100-56747>



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### **Products Related to NB100-56747**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP2-27350APC	TRAILR1/TNFRSF10A Antibody (32A1380) [Allophycocyanin]

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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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