

# Product Datasheet

## TRAILR1/TNFRSF10A Antibody (32A1380) - Azide and BSA Free NBP2-27350

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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**NBP2-27350**

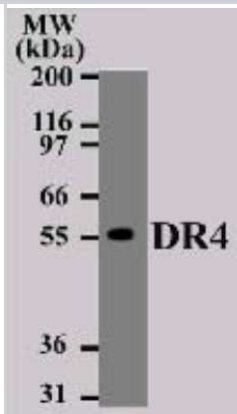
TRAILR1/TNFRSF10A Antibody (32A1380) - Azide and BSA Free

<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>	No Preservative
<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), Block/Neutralize, CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot 2 - 4 ug/mL, Simple Western, Flow Cytometry 1 uL/1 million cells, Flow (Cell Surface) reported in scientific literature (PMID 18004565), Flow (Intracellular) reported in scientific literature (PMID 17541421), CyTOF-ready, Block/Neutralize
<b>Application Notes</b>	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.

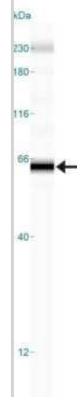


## Images

Western Blot: TRAILR1/TNFRSF10A Antibody (32A1380) - Azide Free [NBP2-27350] - TRAIL R1/TNFRSF10A Antibody (32A1380) - Azide Free [NBP2-27350] - Analysis of NBP2-27350 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: TRAILR1/TNFRSF10A Antibody (32A1380) - Azide Free [NBP2-27350] - TRAIL R1/TNFRSF10A Antibody (32A1380) - Azide Free [NBP2-27350] - 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

Tsurushima H, Yuan X, Dillehay LE et al. Radioresponsive tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) gene therapy for malignant brain tumors. *Cancer Gene Ther.* 2007-08-01 [PMID: 17541421] (Flow Cytometry Control, Human)

### Details:

DR4 NT TRAIL-R1 (IMG-141A). Flow (intracellular): Human malignant glioma (U251 & U87) cell lines exposed to varying times of radiation, Fig 4.

Liu X, Yue P, Khuri FR, Sun SY. p53 upregulates death receptor 4 expression through an intronic p53 binding site. *Cancer Res.* 2004-08-01 [PMID: 15289308]

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.

Bretz JD, Mezosi E, Giordano TJ et al. Inflammatory cytokine regulation of TRAIL-mediated apoptosis in thyroid epithelial cells. *Cell Death Differ.* 2002-03-01 [PMID: 11859410]

Guan B, Yue P, Lotan R, Sun SY. Evidence that the human death receptor 4 is regulated by activator protein 1. *Oncogene.* 2002-05-09 [PMID: 12082627]

Chen X, Kandasamy K, Srivastava RK. Differential roles of RelA (p65) and c-Rel subunits of nuclear factor kappa B in tumor necrosis factor-related apoptosis-inducing ligand signaling. *Cancer Res.* 2003-03-01 [PMID: 12615723]

Ren YG, Wagner KW, Knee DA et al. Differential regulation of the TRAIL death receptors DR4 and DR5 by the signal recognition particle. *Mol Biol Cell.* 2004-11-01 [PMID: 15356269]

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]

Lin YD, Chen S, Yue P et al. CAAT/enhancer binding protein homologous protein-dependent death receptor 5 induction is a major component of SHetA2-induced apoptosis in lung cancer cells. *Cancer Res.* 2008-07-01 [PMID: 18593935]

### Details:

Antibodies cited: [WB ( human non-small cell lung cancer cell lines)]: 1. Anti-caspase-3 (IMG-144A): Figs. 1A,B; 5A. 2. DR4 (NT) TRAIL-R1 (IMG-141A): Figs. 3A.

Jane EP, Premkumar DR, Pollack IF. Bortezomib sensitizes malignant human glioma cells to TRAIL, mediated by inhibition of the NF- $\kappa$ B signaling pathway. *Mol Cancer Ther.* 2011-01-01 [PMID: 21220502]

### Details:

DR4 (IMG-141A) and DR5/TRAILR2 (IMG-120A). WB: Various human glioma cell lines treated with TRAIL: LN18, U87, LN2308, and U373, Fig 2B & 2C.

Kroll TM, Bommasamy H, Boissy RE et al. 4-Tertiary butyl phenol exposure sensitizes human melanocytes to dendritic cell-mediated killing: relevance to vitiligo. *J Invest Dermatol.* 2005-04-01 [PMID: 15816839] (FLOW)



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### **Products Related to NBP2-27350**

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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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