

Rabbit anti-Human DR4 Polyclonal Antibody | anti-TNFRSF10A antibody

DR4 Antibody

CATALOG # AAA10952	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Western Blot, Immunocytochemistry
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PRODUCT SYNONYMS

DR4; Polyclonal Antibody; DR4 Antibody; APO2; CD261; TRAILR1; TRAILR-1; Tumor necrosis factor receptor superfamily member 10A; Death receptor 4; TRAIL receptor 1; tumor necrosis factor receptor superfamily; member 10a; anti-TNFRSF10A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	DR4 Antibody is Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	468
Applicable Applications for anti-TNFRSF10A antibody	ELISA, WB (Western Blot), ICC (Immunocytochemistry)
Application Notes	DR4 antibody can be used for detection of DR4 expression by Western blot at 0.5 mug/mL. Antibody can also be used for immunocytochemistry starting at 10 mug/mL. Knockdown (Knockout, KO validated) Antibody
Conjugate	Unconjugated
Immunogen	DR4 antibody was raised against a peptide corresponding to 19 amino acids near the carboxy terminus of human DR4 protein.
Buffer	DR4 Antibody is supplied in PBS containing 0.02% sodium azide.
Preparation and Storage	Antibody can be stored at 4 degree C up to one year. Antibodies should not be exposed to prolonged high temperatures.

IMAGES



Application Data

Figure 10 KD Validation in HeLa cells (Horinaka et al., 2005)HeLa cells were transfected with DR4siRNA or LacZ control siRNA. At 24 h after transfection, the cells were treated with or without 20 μ M luteolin for 24 h. Western blot analysis was carried out with anti-DR4 antibodies (1139). DR4 expression was markedly reduced after DR4 knockdown.



WB (Western Blot)

Figure 9 KD Validation in Huh7 cells (Malhi et al., 2007)Western blot analysis with anti-DR4 antibodies (1139) was performed for DR5 and DR4 expression using whole cell lysates from Huh 7 cells transfected with respective siRNAs. In cells treated with siDR4, a decrease in DR4 level was observed, DR5 levels were unchanged. Scrambled siRNA was used as control.



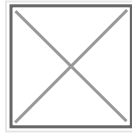
ICC (Immunocytochemistry)

Figure 8 Immunocytochemistry Validation of DR4 in human melanoma cells (Ekmekcioglu et al., 2008) MeWo melanoma cells were exposed to affinity-purified MDA7/IL-24. After 48 h of treatment, cells were collected and cytopspins prepared for cytochemical assessment of their TRAIL receptor (R1 and R2) expression (anti-DR4 (1139) or anti-DR5, AEC, hematoxylin). Both DR4 and DR5 expression were upregulated in MeWo cells after treatment.



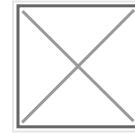
IF (Immunofluorescence)

Figure 7 Immunofluorescence Validation of DR4 in rat brain (Cantarella et al., 2014) DR4 protein expression detected by anti-DR4 antibodies (1139) was increased after transient brain ischemia (tMCAO) and decreased after pre-conditioning stimulus. Confocal microscopic images displaying NeuN (a,d, g) (green), DR4 (b, e, h) (red), and Merge (c, f, i) (yellow) in the brain peri-ischemic region of rats after 5 h.



WB (Western Blot)

Figure 6 KD Validation in SW480 cells (Goda et al., 2008) The expression of DR4 was knocked down via DR4 siRNA, 24 h later cells were treated with dipyridamole for 24 h. DR4 protein expression detected by anti-DR4 antibodies (1139) was disrupted. Dipyridamole up-regulated the expression of DR4.



IHC (Immunohistochemistry)

Figure 5 Immunohistochemistry Validation of DR4 Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-DR4 antibody (1139) at 10 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C; C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.

ADDITIONAL INFORMATION

Related Product Information for anti-TNFRSF10A antibody

DR4 Antibody: Apoptosis, or programmed cell death, occurs during normal cellular differentiation and development of multicellular organisms. Apoptosis is induced by certain cytokines including TNF and Fas ligand in the TNF family through their death domain containing receptors, TNFR1 and Fas. A novel death domain containing receptor was recently identified and designated DR4 (for death receptor 4). The ligand for this novel death receptor has been identified and termed TRAIL2, 3, which is a new member in the TNF family. DR4 is also called TRAIL receptor-1 (TRAIL-R1). DR4 is expressed in most of human tissues including spleen, peripheral blood leukocytes, small intestine and thymus. Like TNFR1, Fas and DR3, DR4 mediates apoptosis and NF- κ B activation in many tissues and cells.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1945072
NCBI GeneID	8797
UniProt Accession #	O00220; Q53Y72; Q96E62; A8K514
Molecular Weight	57 kDa
NCBI Official Full Name	cytotoxic ligand TRAIL receptor
NCBI Official Synonym Full Names	tumor necrosis factor receptor superfamily, member 10a
NCBI Official Symbol	TNFRSF10A
NCBI Official Synonym Symbols	DR4; APO2; CD261; TRAILR1; TRAILR-1
NCBI Protein Information	tumor necrosis factor receptor superfamily member 10A; TRAIL-R1; TRAIL receptor 1; death receptor 4; cytotoxic TRAIL receptor; TNF-related apoptosis-inducing ligand receptor 1; tumor necrosis factor receptor superfamily member 10a variant 2
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 10A
UniProt Gene Name	TNFRSF10A
UniProt Synonym Gene Names	APO2; DR4; TRAILR1; TRAIL receptor 1; TRAIL-R1
UniProt Entry Name	TR10A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/dr4-antibody-western-blot-immunocytochemistry-elisa/10952>