

Rabbit anti-Human, Rat DR5/TNFRSF10B Polyclonal Antibody | anti-DR5/TNFRSF10B antibody

Anti-DR5/TNFRSF10B Antibody Picoband

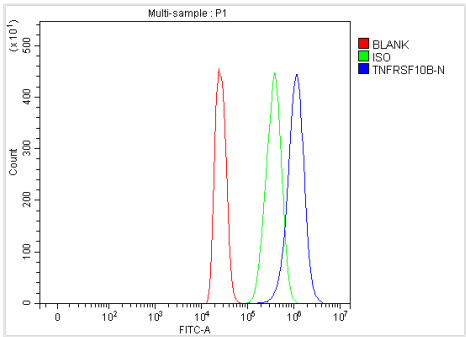
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126989	Rabbit	Human, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

DR5/TNFRSF10B; Polyclonal Antibody; Anti-DR5/TNFRSF10B Antibody Picoband; Tumor necrosis factor receptor superfamily member 10B; Death receptor 5; TNF-related apoptosis-inducing ligand receptor 2; TRAIL receptor 2; TRAIL-R2; CD262; TNFRSF10B; DR5; KILLER; TRAILR2; TRICK2; ZTNFR9; UNQ160/PRO186; anti-DR5/TNFRSF10B antibody

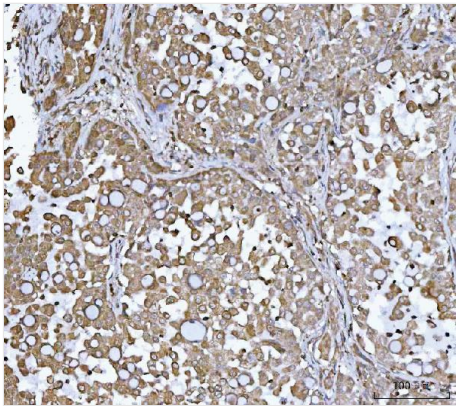
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Widely expressed in adult and fetal tissues; veryHighly expressed in tumor cell lines such as HeLaS3, K-562, HL-60, SW480, A-549 and G-361;Highly expressed in heart, peripheral blood lymphocytes, liver, pancreas, spleen, thymus, prostate, ovary, uterus, placenta, testis, esophagus, stomach and throughout the intestinal tract; not detectable in brain.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-DR5/TNFRSF10B antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human DR5/TNFRSF10B recombinant protein (Position: I56-K388).
Subcellular Localization	Membrane, Single-pass type I membrane protein
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
Protein Function	Receptor for the cytotoxic ligand TNFSF10/TRAIL. The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis. Promotes the activation of NF- kappa-B. Essential for ER stress-induced apoptosis.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



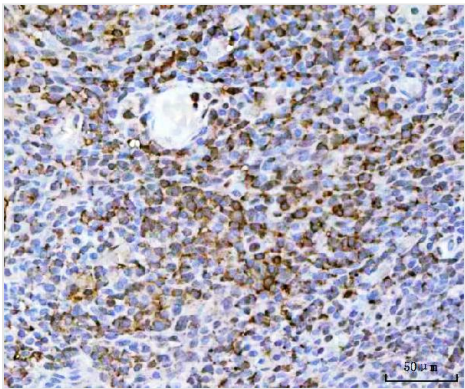
FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of 293T cells using anti-DR5/TNFRSF10B antibody (AAA126989).Overlay histogram showing 293T cells stained with AAA126989 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-DR5/TNFRSF10B Antibody (AAA126989, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



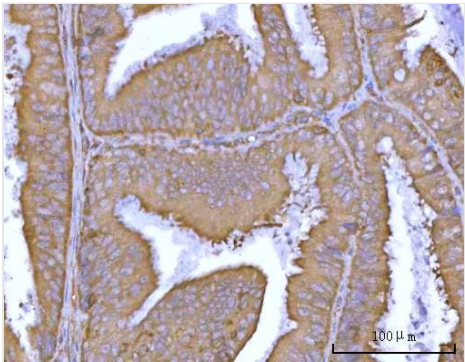
IHC (Immunohistochemisry)

Figure 3. IHC analysis of DR5/TNFRSF10B using anti-DR5/TNFRSF10B antibody (AAA126989).DR5/TNFRSF10B was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-DR5/TNFRSF10B Antibody (AAA126989) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



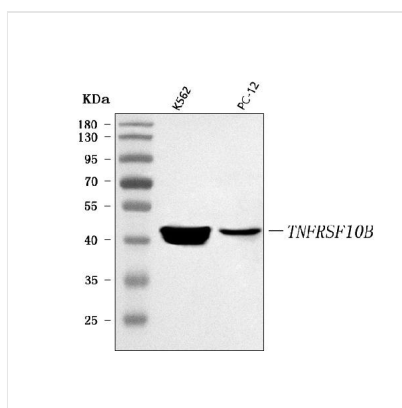
IHC (Immunohistochemistry)

Figure 4. IHC analysis of DR5/TNFRSF10B using anti-DR5/TNFRSF10B antibody (AAA126989).DR5/TNFRSF10B was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-DR5/TNFRSF10B Antibody (AAA126989) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of DR5/TNFRSF10B using anti-DR5/TNFRSF10B antibody (AAA126989).DR5/TNFRSF10B was detected in a paraffin-embedded section of human endometrioid adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-DR5/TNFRSF10B Antibody (AAA126989) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of DR5/TNFRSF10B using anti-DR5/TNFRSF10B antibody (AAA126989). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human K562 whole cell lysates, Lane 2: rat PC-12 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-DR5/TNFRSF10B antigen affinity purified polyclonal antibody (#AAA126989) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for DR5/TNFRSF10B at approximately 45 kDa. The expected band size for DR5/TNFRSF10B is at 32,45-50,58-60 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-DR5/TNFRSF10B antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-DR5/TNFRSF10B antibody	Primary Antibodies ; Signal Transduction
References	1. Finnberg, N., Klein-Szanto, A. J. P., El-Deiry, W. S. TRAIL-R deficiency in mice promotes susceptibility to chronic inflammation and tumorigenesis. <i>J. Clin. Invest.</i> 118: 111-123, 2008. 2. Takeda, K., Kojima, Y., Ikejima, K., Harada, K., Yamashina, S., Okumura, K., Aoyama, T., Frese, S., Ikeda, H., Haynes, N. M., Cretney, E., Yagita, H., Sueyoshi, N., Sato, N., Nakanuma, Y., Smyth, M. J., Okumura, K. Death receptor 5 mediated-apoptosis contributes to cholestatic liver disease. <i>Proc. Nat. Acad. Sci.</i> 105: 10895-10900, 2008. 3. Walczak, H., Degli-Esposti, M. A., Johnson, R. S., Smolak, P. J., Waugh, J. Y., Boiani, N., Timour, M. S., Gerhart, M. J., Schooley, K. A., Smith, C. A., Goodwin, R. G., Rauch, C. T. TRAIL-R2: a novel apoptosis-mediating receptor for TRAIL. <i>EMBO J.</i> 16: 5386-5397, 1997.

NCBI AND UNIPROT INFORMATION

NCBI GI #	224494019
NCBI GeneID	8795
NCBI Accession #	NP_003833.4
NCBI GenBank Nucleotide #	NM_003842.4
UniProt Accession #	O14763 ; O14720 ; O15508 ; O15517 ; O15531 ; Q6UXM8 ; Q7Z360 ; Q9BVE0
Molecular Weight	47,878 Da
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 10B isoform 1
NCBI Official Synonym Full Names	tumor necrosis factor receptor superfamily, member 10b
NCBI Official Symbol	TNFRSF10B

NCBI Official Synonym Symbols	DR5; CD262; KILLER; TRICK2; TRICKB; ZTNFR9; TRAILR2; TRICK2A; TRICK2B; TRAIL-R2; KILLER/DR5
NCBI Protein Information	tumor necrosis factor receptor superfamily member 10B; Fas-like protein; death receptor 5; cytotoxic TRAIL receptor-2; TNF receptor superfamily member 10b; apoptosis inducing receptor TRAIL-R2; apoptosis inducing protein TRICK2A/2B; TNF-related apoptosis-
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 10B
UniProt Gene Name	TNFRSF10B
UniProt Synonym Gene Names	DR5; KILLER; TRAILR2; TRICK2; ZTNFR9; TRAIL receptor 2; TRAIL-R2
UniProt Entry Name	TR10B_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/dr5-tnfrsf10b-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/126989>