Datasheet for ABIN4886748

anti-TNFRSF10A antibody (N-Term)

1 Image | 1 Publication

Go to Product page

Overview

Quantity:	100 µg
Target:	TNFRSF10A
Binding Specificity:	AA 99-131, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TNFRSF10A antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Purpose:	Anti-DR4/TNFRSF10A Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human DR4.
Sequence:	VLLQVVPSSA ATIKLHDQSI GTQQWEHSPL GEL
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-DR4/TNFRSF10A Antibody Picoband® (ABIN4886748). Tested in IF, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. 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 Details

Purification:	Immunogen affinity purified.

Target Details

Target:	TNFRSF10A
Alternative Name:	TNFRSF10A (TNFRSF10A Products)
Background:	Synonyms: Tumor necrosis factor receptor superfamily member 10A,Death receptor 4,TNF-related apoptosis-inducing ligand receptor 1,TRAIL receptor 1,TRAIL-R1,CD261,TNFRSF10A,APO2, DR4, TRAILR1, Tissue Specificity: Widely expressed. High levels are found in spleen, peripheral blood leukocytes, small intestine and thymus, but also in K-562 erythroleukemia cells, MCF-7 breast carcinoma cells and activated T-cells. Background: TNFRSF10A (Tumor Necrosis Factor Receptor Subfamily Member 10A), also known as APO2, DR4 or TRAILR1, is a protein that in humans is encoded by the TNFRSF10A gene. The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor is activated by tumor necrosis factor-related apoptosis inducing ligand (TNFSF10/TRAIL), and thus transduces cell death signal and induces cell apoptosis. Studies with FADD-deficient mice suggested that FADD, a death domain containing adaptor protein, is required for the apoptosis mediated by this protein.
Molecular Weight:	50 kDa
Gene ID:	8797
UniProt:	O00220
Pathways:	Apoptosis, Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL Immunocytochemistry/Immunofluorescence, 5 µg/mL 1. Walczak H, Degli-Esposti MA, Johnson RS, Smolak PJ, Waugh JY, Boiani N, Timour MS, Gerhart MJ, Schooley KA, Smith CA, Goodwin RG, Rauch CT (Dec 1997). "TRAIL-R2: a novel apoptosis-mediating receptor for TRAIL". EMBO J. 16 (17): 5386-97. 2. Pan G, O'Rourke K, Chinnaiyan AM, Gentz R, Ebner R, Ni J, Dixit VM (April 1997). "The receptor for the cytotoxic ligand TRAIL". Science. 276 (5309): 111-3.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Application Details

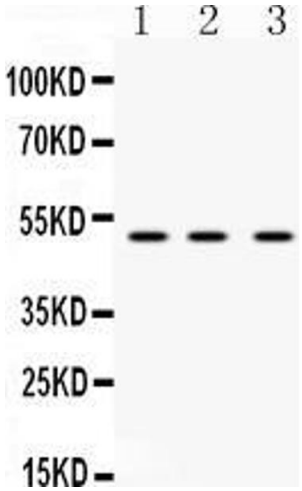
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Publications

Product cited in:	Liu, Zuo, Wang, Chen, Yang, Wang, Zhu: "miR-942 decreases TRAIL-induced apoptosis through ISG12a downregulation and is regulated by AKT." in: **Oncotarget**, Vol. 5, Issue 13, pp. 4959-71, (2014) (PubMed).



Western Blotting

Image 1. Western blot analysis of DR4 using anti-DR4 antibody . 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 50ug of sample under reducing conditions. Lane 1: rat spleen tissue lysates, Lane 2: mouse spleen tissue lysates, Lane 3: MCF-7 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-DR4 antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°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 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for DR4 at approximately 50KD. The expected band size for DR4 is at 50KD.