Datasheet for ABIN5518883

anti-TNFRSF1A antibody (AA 89-145)

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Overview

Quantity:	100 µg
Target:	TNFRSF1A
Binding Specificity:	AA 89-145
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TNFRSF1A antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-TNFRSF1A Antibody Picoband®
Immunogen:	E.coli-derived human TNFRSF1A recombinant protein (Position: F89-N145). Human TNFRSF1A shares 67.3% and 69.1% amino acid (aa) sequence identity with mouse and rat TNFRSF1A, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-TNFRSF1A Antibody Picoband® (ABIN5518883). Tested in 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:	TNFRSF1A
Alternative Name:	TNFRSF1A (TNFRSF1A Products)
Background:	Synonyms: Tumor necrosis factor receptor superfamily member 1A,Tumor necrosis factor receptor 1,TNF-R1,Tumor necrosis factor receptor type I,TNF-RI,TNFR-I,p55,p60,CD120a,Tumor necrosis factor receptor superfamily member 1A, membrane form,Tumor necrosis factor-binding protein 1,TBPI,TNFRSF1A,TNFAR, TNFR1, Tissue Specificity: Activated T-cells. Highly expressed on tonsillar T-cells, which are closely associated with B-cells in the apical light zone of germinal centers, the site of terminal B- cell maturation. Expressed at lower levels in thymus, lung, lymph node and peripheral blood leukocytes. Expressed in the medulla of fetal and newborn thymus. Background: Tumor necrosis factor receptor superfamily member 1A (TNFRSF1A), also known as TNFR1, is a protein that in humans is encoded by the TNFRSF1A gene. The protein encoded by this gene is a member of the Tumor necrosis factor receptor superfamily, which also contains TNFRSF1B. The TNFR1 gene is mapped to 12pter-cen. It encodes a protein of 455 amino acids. And this receptor can activate the transcription factor NF-κB, mediate apoptosis, and function as a regulator of inflammation.
Molecular Weight:	60 kDa
UniProt:	P19438
Pathways:	NF-kappaB Signaling, Apoptosis, Caspase Cascade in Apoptosis, Hepatitis C, Ubiquitin Proteasome Pathway

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Mouse, Rat, Human 1. Baker E, Chen LZ, Smith CA, Callen DF, Goodwin R, Sutherland GR (Nov 1991). "Chromosomal location of the human tumor necrosis factor receptor genes". Cytogenet Cell Genet 57 (2-3): 117-8. 2. Schall TJ, Lewis M, Koller KJ, Lee A, Rice GC, Wong GH, Gatanaga T, Granger GA, Lentz R, Raab H, et al. (Jun 1990). "Molecular cloning and expression of a receptor for human tumor necrosis factor". Cell 61 (2): 361-70.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

Application Details

Restrictions:	For Research Use only

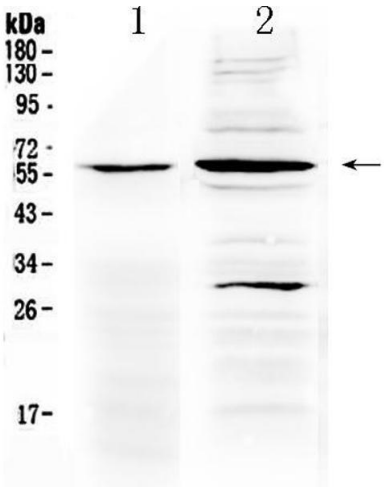
Handling

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, 0.05 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.
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:	Zhou, He, Wang, Xie, Liu, Liu, Song, Ma: "Intravenous Administration Is an Effective and Safe Route for Cancer Gene Therapy Using the Bifidobacterium-Mediated Recombinant HSV-1 Thymidine Kinase and Ganciclovir." in: **International journal of molecular sciences**, Vol. 17, Issue 6, (2017) (PubMed). Guan, Zheng, Huang, Li, Niu, Liu: "Powerful inner/outer controlled multi-target magnetic nanoparticle drug carrier prepared by liquid photo-immobilization." in: **Scientific reports**, Vol. 4, pp. 4990, (2015) (PubMed). Lu, Jiang, Cao, Zhang, Zhang, Ji, Gao: "TRAF6 upregulation in spinal astrocytes maintains neuropathic pain by integrating TNF-α and IL-1β signaling." in: **Pain**, Vol. 155, Issue 12, pp. 2618-29, (2015) (PubMed). Yu, Zhang, Li: "Soluble tumor necrosis factor receptor mediates cell proliferation on lipopolysaccharide-stimulated cultured human decidual stromal cells." in: **International journal of molecular sciences**, Vol. 10, Issue 5, pp. 2010-8, (2014) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of TNFRSF1A using anti-TNFRSF1A 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 gaster tissue lysates, Lane 2: mouse brain tissue 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-TNFRSF1A 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 TNFRSF1A at approximately 60KD. The expected band size for TNFRSF1A is at 50KD.