Datasheet for ABIN2482042

anti-TNFRSF1A antibody (AA 20-43) (PE)

6 Images

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Overview

Quantity:	100 μg
Target:	TNFRSF1A
Binding Specificity:	AA 20-43
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TNFRSF1A antibody is conjugated to PE
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	Peptide corresponding to AA 20-43 of the mouse TNF-R1 sequence, identical to rat and human over those residues
Specificity:	Detects ~55 kDa. Other bands present may be the result of oligomerization, self-aggregation and/or cleavage of the TNF-R1 extracellular domain.
Cross-Reactivity:	Cow, Dog, Human, Monkey, Mouse, Rabbit, Rat
Purification:	Peptide Affinity Purified

Target Details

Target:	TNFRSF1A
Alternative Name:	TNFR1 (TNFRSF1A Products)

Target Details

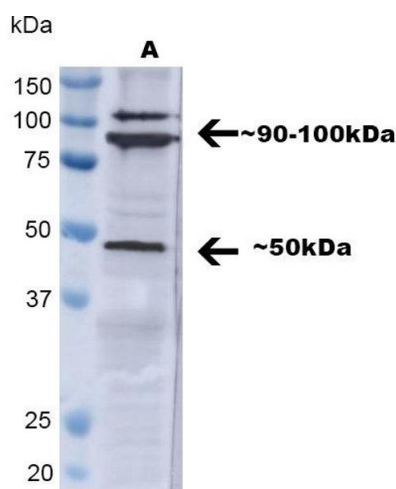|	
Background:	The Tumor Necrosis Factor Receptor (TNFR) also known as Cluster of differentiation (CD120) is a protein that belongs to the (TNF)/ (TNFR) superfamily. TNF interacts with two distinct receptors TNFR1 and TNFR2. These receptors share no homology on their cytoplasmic sequences(1,3).TNFR1 also known as p55/p60 is a high affinity receptor for TNF-α. The TNFR1 has an extracellular domain with variable numbers of cysteine-rich repeats. The functional properties of TNFR1 are targets in new therapies for osteoporosis, chronic inflammatory and autoimmune diseases (1, 2). The TNF-α/TNFR1 receptor complex is responsible for the recruitment and the subsequent activation of the caspase (aspartate-specific cysteine proteases) that regulate apoptosis.
Gene ID:	8666
UniProt:	P19438
Pathways:	NF-kappaB Signaling, Apoptosis, Caspase Cascade in Apoptosis, Hepatitis C, Ubiquitin Proteasome Pathway

Application Details

Application Notes:	• WB (1:1000) • IHC (1:100) • ICC/IF (1:100) • optimal dilutions for assays should be determined by the user.
Comment:	1 µg/ml of ABIN2482042 was sufficient for detection of TNFR1 in 20 µg of Hela lysate by colorimetric immunoblot analysis using Goat anti-rabbit IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
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

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Handling

| Storage Comment:	Conjugated antibodies should be stored at 4°C

Images

Western Blotting

Image 1. Western blot analysis of Human A549 showing detection of ~ 50 kDa TNF-R1 protein using Rabbit Anti-TNF-R1 Polyclonal Antibody (ABIN2482042). Lane 1: MW Ladder, Lane 2: A549. Load: 30 µg. Block: 5 % BSA in TBST. Primary Antibody: Rabbit Anti-TNF-R1 Polyclonal Antibody (ABIN2482042) at 1:1000 for 2 hours at RT with shaking. Secondary Antibody: Goat Anti-Rabbit IgG: HRP at 1:4000 for 1 hour at RT with shaking. Color Development: Chemiluminescent for HRP (Moss) for 5 min in RT. Predicted/Observed Size: ~ 50 kDa. Other Band(s): ~90-100 kDa. Other bands can be explained by a few factors, such as oligomerization, self-aggregation, cleavage of the TNFR1 extracellular domain, etc.(Literature references: doi: 10.3389/fcell.2020.615141, 10.1128/MCB.22.8.2536-2543.2002, 10.1073/pnas.0307981100).

Immunofluorescence (fixed cells)

Image 2. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-TNF-R1 Polyclonal Antibody . Tissue: HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-TNF-R1 Polyclonal Antibody at 1:100 for 12 hours at 4°C. Secondary Antibody: APC Goat Anti-Rabbit (red) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Golgi apparatus membrane. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-TNF-R1 Antibody. (C) Composite.
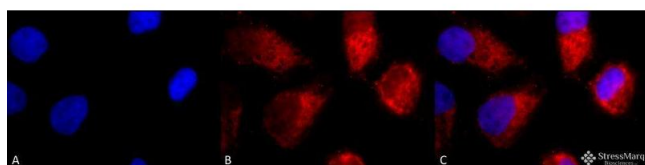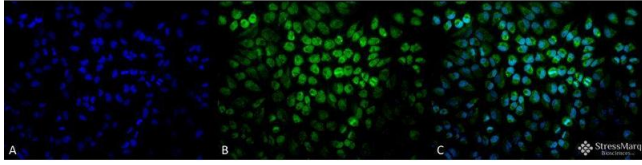
Images

Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-TNF-R1 Polyclonal Antibody . Tissue: HeLa Cells. Species: Human. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-TNF-R1 Polyclonal Antibody at 1:100 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40000 for 2 hours at RT. Localization: Golgi apparatus membrane. Magnification: 20x. (A) DAPI (blue) nuclear stain. (B) Anti-TNF-R1 Antibody. (C) Composite.

Please check the product details page for more images. Overall 6 images are available for ABIN2482042.