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Datasheet for ABIN2482039

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

6 Images

Overview

| | |
|----------------------|---|
| Quantity: | 100 µg |
| Target: | TNFRSF1A |
| Binding Specificity: | AA 20-43 |
| Reactivity: | Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This TNFRSF1A antibody is conjugated to HRP |
| 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 μ g/ml of ABIN2482039 was sufficient for detection of TNFR1 in 20 μ g 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

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

Images

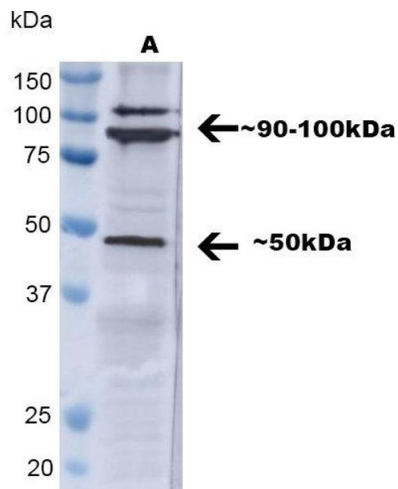
**Western Blotting**

Image 1. Western blot analysis of Human A549 showing detection of ~ 50 kDa TNF-R1 protein using Rabbit Anti-TNF-R1 Polyclonal Antibody (ABIN2482039). Lane 1: MW Ladder, Lane 2: A549. Load: 30 µg. Block: 5 % BSA in TBST. Primary Antibody: Rabbit Anti-TNF-R1 Polyclonal Antibody (ABIN2482039) 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).

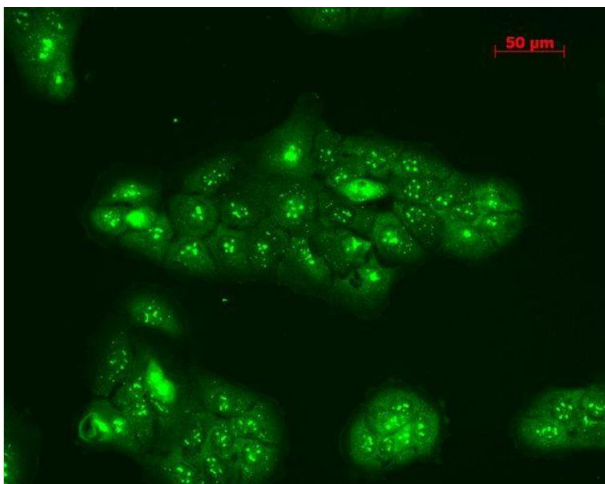
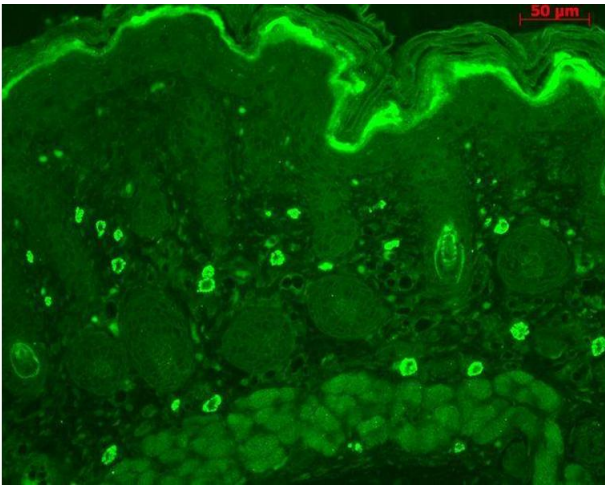
**Immunofluorescence (fixed cells)**

Image 2. Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-TNF-R1 Polyclonal Antibody. Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol at -20C for 10 minutes. Primary Antibody: Rabbit Anti-TNF-R1 Polyclonal Antibody at 1:100 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Rabbit at 1:50 for 1-2 hours at RT in dark. Localization: Punctate nuclear staining, dotted staining in cytoplasm.



Immunohistochemistry

Image 3. Immunohistochemistry analysis using Rabbit Anti-TNF-R1 Polyclonal Antibody . Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative Solution. Primary Antibody: Rabbit Anti-TNF-R1 Polyclonal Antibody at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:50 for 1 hour at RT. Localization: dermis.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN2482039.