

Datasheet for ABIN2482028

**anti-TNFRSF1A antibody (AA 20-43) (Atto 488)****6** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	TNFRSF1A
Binding Specificity:	AA 20-43
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TNFRSF1A antibody is conjugated to Atto 488
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 ( <a href="#">TNFRSF1A Products</a> )

## 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- $\alpha$ . 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- $\alpha$ /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:	<a href="#">P19438</a>
Pathways:	<a href="#">NF-kappaB Signaling</a> , <a href="#">Apoptosis</a> , <a href="#">Caspase Cascade in Apoptosis</a> , <a href="#">Hepatitis C</a> , <a href="#">Ubiquitin Proteasome Pathway</a>

## Application Details

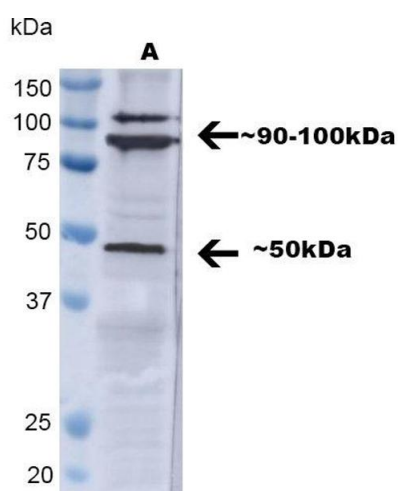
Application Notes:	<ul style="list-style-type: none"><li>• WB (1:1000)</li><li>• IHC (1:100)</li><li>• ICC/IF (1:100)</li><li>• optimal dilutions for assays should be determined by the user.</li></ul>
Comment:	1 $\mu$ g/ml of ABIN2482028 was sufficient for detection of TNFR1 in 20 $\mu$ g of Hela lysate 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

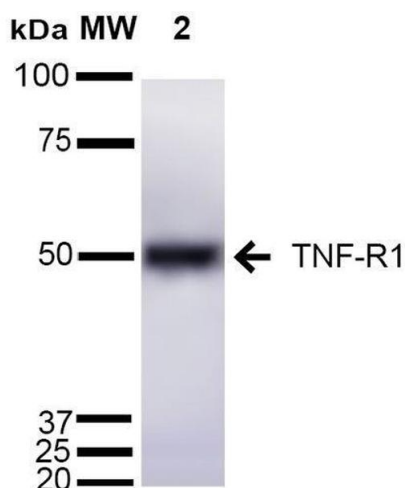
Storage Comment: Conjugated antibodies should be stored at 4°C

## Images



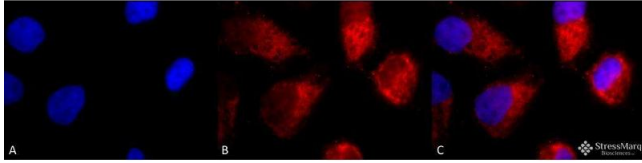
## Western Blotting

**Image 1.** Western blot analysis of Human A549 showing detection of ~ 50 kDa TNF-R1 protein using Rabbit Anti-TNF-R1 Polyclonal Antibody (ABIN2482028). Lane 1: MW Ladder, Lane 2: A549. Load: 30 µg. Block: 5 % BSA in TBST. Primary Antibody: Rabbit Anti-TNF-R1 Polyclonal Antibody (ABIN2482028) 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).



## Western Blotting

**Image 2.** Western blot analysis of Mouse Liver cell lysates showing detection of ~55 kDa TNF-R1 protein using Rabbit Anti-TNF-R1 Polyclonal Antibody . Lane 1: Molecular Weight Ladder (MW). Lane 2: Mouse Liver cell lysates. Load: 15 µg. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Rabbit Anti-TNF-R1 Polyclonal Antibody at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Rabbit IgG: HRP at 1:2000 for 60 min at RT. Color Development: ECL solution for 5 min at RT. Predicted/Observed Size: ~55 kDa.



#### 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: 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.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN2482028.