

**TNF-R1 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10100****Specification**

---

**TNF-R1 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">P25118</a>
Reactivity	Human, Mouse, Rat, Rabbit, Hamster, Monkey, Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	50130

**TNF-R1 Antibody - Additional Information****Gene ID** 21937

Application & Usage	Western blotting (0.5-4 µg/ml) and in Immunohistochemistry (10-20 µg/ml). However, the optimal conditions should be determined individually. The antibody detects cdc42 of human, mouse, rat, and bovine origins.
---------------------	---

**Other Names**

TNF-R1, Tumor Necrosis Factor type I, TNFRSF1A, TNFAR, TNF-R55, TNFR60, p55, CD120a

**Target/Specificity**

TNF-RI

**Antibody Form**

Liquid

**Appearance**

Colorless liquid

**Formulation**

100 µg (0.2 mg/ml) affinity purified rabbit anti-TNF-R1 polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

**Handling**

The antibody solution should be gently mixed before use.

**Reconstitution & Storage**

-20 °C

## Background Descriptions

### Precautions

TNF-R1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

### TNF-R1 Antibody - Protein Information

**Name** Tnfrsf1a

**Synonyms** Tnfr-1, Tnfr1

#### Function

Receptor for TNFSF2/TNF-alpha and homotrimeric TNFSF1/lymphotoxin-alpha. The adapter molecule FADD recruits caspase-8 to the activated receptor. The resulting death-inducing signaling complex (DISC) performs caspase-8 proteolytic activation which initiates the subsequent cascade of caspases (aspartate-specific cysteine proteases) mediating apoptosis (By similarity).

#### Cellular Location

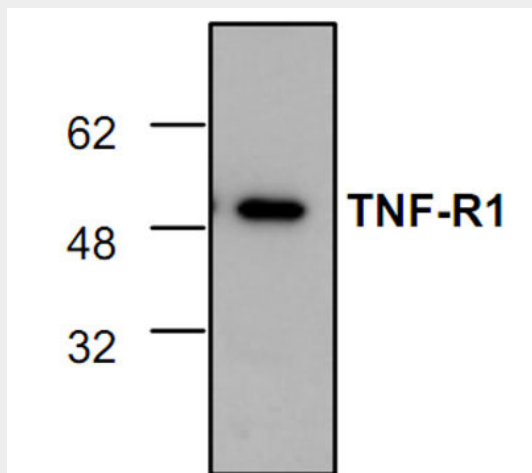
Cell membrane; Single-pass type I membrane protein. Golgi apparatus membrane; Single-pass type I membrane protein

### TNF-R1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### TNF-R1 Antibody - Images



Western blot analysis of TNF-R1 expression in rat brain tissue lysate.

### **TNF-R1 Antibody - Background**

Tumor necrosis factor receptor 1 and 2 (TNF-R1 and TNF-R2) are 55 and 75 kDa. While TNF-R1 and TNF-R2 share 28% sequence homology in the extracellular domains, their intracellular domains lack sequence homology, suggesting that they differ in their internal signal transduction pathways. TNF-R1 contains an approximately 80 amino acid death domain near its carboxy terminus capable of transmitting an apoptotic signal through its interaction with TRADD (TNF-R1 associated death domain protein), and subsequent interactions with FADD. TNF-R1 can also activate the transcription factor NFkB via TRAF2 (TNF receptor associated factor 2). The cytoplasmic domain of TNF-R1 can directly interact with Jak kinase, thereby activating the JAK/STAT signal transduction cascade.