

**TNFAIP1 Antibody**  
**Catalog # ASC11954****Specification**

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**TNFAIP1 Antibody - Product Information**

Application	IHC
Primary Accession	<a href="#">Q13829</a>
Other Accession	<a href="#">NP_066960</a> , <a href="#">7126</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 35 kDa

## Application Notes

**Observed: 35 kDa KDa**  
**TNFAIP1 antibody can be used for the detection of TNFAIP1 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry at 10 µg/ml.**

**TNFAIP1 Antibody - Additional Information**Gene ID **7126****Target/Specificity**

TNFAIP1 antibody was raised against a 19 amino acid peptide from near the carboxy terminus of human TNFAIP1. <br><br>The immunogen is located within the last 50 amino acids of TNFAIP1.

**Reconstitution & Storage**

TNFAIP1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

**Precautions**

TNFAIP1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**TNFAIP1 Antibody - Protein Information****Name** TNFAIP1**Synonyms** BACURD2, EDP1**Function**

Substrate-specific adapter of a BCR (BTB-CUL3-RBX1) E3 ubiquitin-protein ligase complex involved in regulation of cytoskeleton structure. The BCR(TNFAIP1) E3 ubiquitin ligase complex mediates the ubiquitination of RHOA, leading to its degradation by the proteasome, thereby regulating the actin cytoskeleton and cell migration. Its interaction with RHOB may regulate apoptosis. May enhance the PCNA- dependent DNA polymerase delta activity.

**Cellular Location**

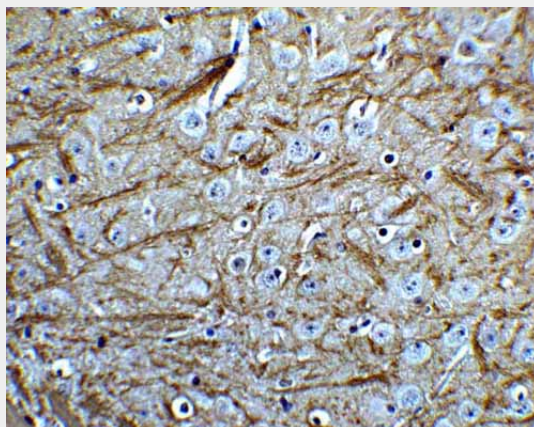
Cytoplasm. Nucleus. Endosome. Note=Colocalizes with RHOB in endosomes

## TNFAIP1 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](#)

## TNFAIP1 Antibody - Images



Immunohistochemistry of TNFAIP1 in mouse brain tissue with TNFAIP1 Antibody at 5 µg/mL.

## TNFAIP1 Antibody - Background

TNFAIP1 is a BTB/POZ domain-containing protein that belongs to the KCTD10/BACURD family which mediates POZ-POZ interactions and chromatin modeling (1,2). The expression of TNFAIP1 is developmentally regulated in a tissue-specific manner and can be induced by the tumor necrosis factor alpha (TNF) in umbilical vein endothelial cells (3). TNFAIP1 may be involved in DNA repair, DNA synthesis, and cell apoptosis. TNFAIP1 is suggested to play a role in the process of cancer and in the innate immunity against the Hepatitis B virus (4,5).

## TNFAIP1 Antibody - References

- Liu M, Sun Z, Zhou A, et al. Functional characterization of the promoter region of human TNFAIP1 gene. *Mol. Biol. Rep.* 2010; 37:1699-705.
- Hu X, Yan F, Wang F, et al. TNFAIP1 interacts with KCTD10 to promote the degradation of KCTD10 proteins and inhibit the transcriptional activities of NF- $\kappa$ B and AP-1. *Mol. Biol. Rep.* 2012; 39:9911-9.
- Zhang CL, Wang C, Yan WJ, et al. Knockdown of TNFAIP1 inhibits growth and induces apoptosis in osteosarcoma cells through inhibition of the nuclear factor- $\kappa$ B pathway. *Oncol. Rep.* 2014; 32:1149-55.
- Kim DM, Chung KS, Choi SJ, et al. RhoB induces apoptosis via direct interaction with TNFAIP1 in HeLa cells. *Int. J. Cancer* 2009; 125:2520-7.