

TIAF Antibody
Catalog # ASC11645**Specification**

TIAF Antibody - Product Information

Application	WB, ICC
Primary Accession	O95411
Other Accession	NP_004731 , 17978509
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 13 kDa
Application Notes	Observed: 14 kDa KDa TIAF Antibody can be used for detection of TIAF by Western blot at 1 µg/mL.

TIAF Antibody - Additional Information

Gene ID 9220
Target/Specificity
TIAF; Two alternatively spliced transcript variants encoding different isoforms have been identified.

Reconstitution & Storage

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

Precautions

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

TIAF Antibody - Protein Information

Name MYO18A

Synonyms TIAF1

Function

[Isoform TIAF1]: Inhibits the cytotoxic effects of TNF-alpha and overexpressed TNF receptor adapters TRADD, FADD, and RIPK1. Involved in TGF-beta1 inhibition of IkappaB-alpha expression and suppression of TNF-mediated IkappaB-alpha degradation.

Cellular Location

[Isoform TIAF1]: Nucleus

Tissue Location

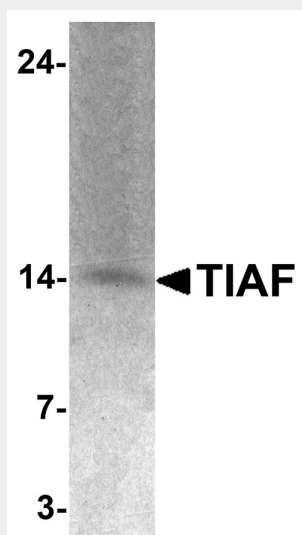
Not detectable in normal kidney and liver. Up-regulated in chronic and acute allograft rejection: expressed in the inflammatory infiltrate and in tubular epithelial cells

TIAF Antibody - Protocols

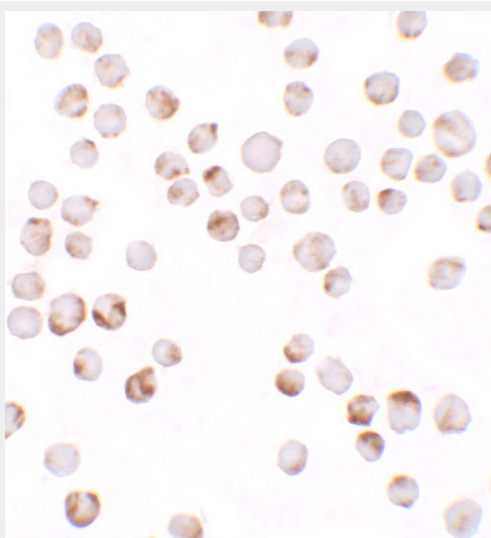
Provided below are standard protocols that you may find useful for product applications.

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

TIAF Antibody - Images



Western blot analysis of TIAF in K562 cell lysate with TIAF antibody at 1 µg/mL.



Immunocytochemistry of TIAF in K562 cells with TIAF antibody at 2.5 µg/ml.

TIAF Antibody - Background

TIAF Antibody: TIAF-1 (TGFB1-induced anti-apoptotic factor 1), also known as MYO18A, is a TGFB1-induced anti-apoptotic factor that functions to inhibit the cytotoxic effects of TNF-alpha, TRADD and FADD. It localizes to the nucleus and significantly up-regulated in activated helper T lymphocytes (TH2) in chronic kidney and liver allograft rejection. Suppression of TIAF1 expression by siRNA prevents UV irradiation-mediated p53 phosphorylation and nuclear translocation. TIAF1 is essential in the p53- and WOX1-mediated cell death and shows an aggregation-dependent control of tumor progression and metastasis, and regulation of cell death.

TIAF Antibody - References

Chang NS, Mattison J, Cao H, et al. Cloning and characterization of a novel transforming growth factor-beta1-induced TIAF1 protein that inhibits tumor necrosis factor cytotoxicity. *Biochem. Biophys. Res. Commun.* 1998; 253:743-9.

Khera S and Chang NS. TIAF1 participates in the transforming growth factor beta1--mediated growth regulation. *Ann. N.Y. Acad. Sci.* 2003; 995:11-21.

Van der Leij J, Van den Berg A, Albrecht EW, et al. High expression of TIAF-1 in chronic kidney and liver allograft rejection and in activated T-helper cells. *Transplantation* 2003; 75:2076-82.

Schultz L, Khera S, Sleeve D, et al. TIAF1 and p53 functionally interact in mediating apoptosis and silencing of TIAF1 abolishes nuclear translocation of serine 15-phosphorylated p53. *DNA Cell Biol.* 2004; 23:67-74