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TIAF Antibody

Catalog # ASC11645

Product Information

Application	WB, ICC, E
Primary Accession	O95411
Other Accession	NP_004731, 17978509
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	12414
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	TIAF Antibody can be used for detection of TIAF by Western blot at 1 g/mL.

Additional Information

Other Names	TGFB1-induced anti-apoptotic factor 1, 12 kDa TGF-beta-1-induced antiapoptotic factor, TIAF1
Target/Specificity	TIAF; Two alternatively spliced transcript variants encoding different isoforms have been identified.
Reconstitution & Storage	TIAF antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.
Precautions	TIAF Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MYO18A
Synonyms	TIAF1
Function	[Isoform TIAF1]: Inhibits the cytotoxic effects of TNF 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

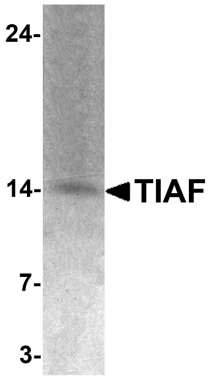
Background

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.

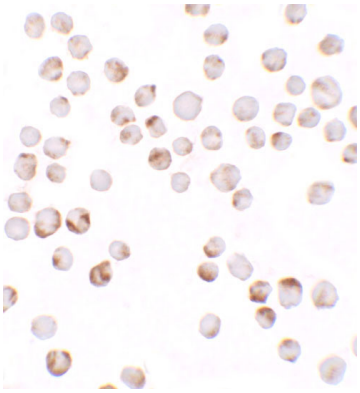
References

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, Sleve 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

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.