

TIFA Antibody

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H	Endogenous	21	Rabbit	#Q96CG3	92610

Product Usage Information**Application**

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. *Do not aliquot the antibody.*

Specificity/Sensitivity

TIFA Antibody recognizes endogenous levels of total TIFA protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro159 of human TIFA protein. Antibodies are purified by peptide affinity chromatography.

Background

TRAF-interacting protein with FHA domain-containing protein A (TIFA) is a cytosolic adaptor protein that is a critical node in an innate immune signaling axis that is activated upon detection of proinflammatory stimuli derived from a bacterial pathogen-associated molecular pattern metabolite, ADP-heptose (1-4). ADP-heptose binds and activates Alpha-protein kinase 1, which drives the phosphorylation-dependent oligomerization and activation of TIFA (5,6). Activated TIFA is then poised to shape the innate immune response by triggering TRAF6 oligomerization, IKK activation, and NF-κB-dependent proinflammatory gene transcription (1,2,5,7).

Background References

- Zhou, P. et al. (2018) *Nature* 561, 122-6.
- Milivojevic, M. et al. (2017) *PLoS Pathog* 13, e1006224.
- Zimmermann, S. et al. (2017) *Cell Rep* 20, 2384-95.
- Gaudet, R.G. et al. (2015) *Science* 348, 1251-5.
- Huang, C.C. et al. (2012) *Mol Cell Biol* 32, 2664-73.
- Weng, J.H. et al. (2015) *Biochemistry* 54, 6219-29.
- Ea, C.K. et al. (2004) *Proc Natl Acad Sci U S A* 101, 15318-23.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human

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