

TIAM1 Antibody



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 220	Source/Isotype: Rabbit	UniProt ID: #Q13009	Entrez-Gene Id: 7074
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

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

TIAM1 Antibody recognizes endogenous levels of total TIAM1 protein.

Species predicted to react based on 100% sequence homology

Mouse, Rat

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human TIAM1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background

TIAM1 (T-lymphoma invasion and metastasis-inducing protein 1) is a multidomain guanine nucleotide exchange factor (GEF) protein that activates Rac1, a GTPase involved in cytoskeletal dynamics that regulate cell migration, growth, and survival. TIAM1 also has been identified as an inhibitor of the YAP/TAZ signaling pathway, with two distinct subcellular mechanisms of action: (1) promoting cytoplasmic (proteosomal) degradation of YAP and TAZ; and (2) blocking the transcriptional co-activator functions of YAP and TAZ in the nucleus (3,4). The effects of TIAM1 on tumor development are also complex and context-dependent. For example, it has been reported that TIAM1 can promote tumor growth and progression in some contexts, while antagonizing tumor metastasis and invasion in other contexts (5,6).

Background References

1. Marei, H. and Malliri, A. (2017) *Small GTPases* 8, 90-99.
2. Cook, D.R. et al. (2014) *Oncogene* 33, 4021-35.
3. Diamantopoulou, Z. et al. (2017) *Cancer Cell* 31, 621-634.e6.
4. Azzolin, L. and Piccolo, S. (2017) *Cancer Cell* 31, 607-608.
5. Boissier, P. and Huynh-Do, U. (2014) *Cell Signal* 26, 483-91.
6. Porter, A.P. et al. (2016) *Small GTPases* 7, 123-38.

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

Cross-Reactivity Key

H: Human

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