Human/Mouse TIAM1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5038

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects endogenous human and mouse TIAM1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human TIAM1 Met1-Ala378 Accession # Q13009
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

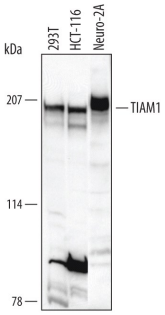
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human/Mouse TIAM1 by Western Blot. Western blot shows lysates of 293T human embryonic kidney cell line, HCT-116 human colorectal carcinoma cell line, and Neuro-2A mouse neuroblastoma cell line. PVDF membrane was probed with 1 µg/mL of Human/Mouse TIAM1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5038) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for TIAM1 at approximately 200 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

TIAM1 (T lymphoma invasion and metastasis) is an approximately 200 kDa member of the TIAM family of guanine-nucleotide exchange factors. It is expressed in multiple cell types, including endothelial cells, neurons, Schwann cells and almost all tumors. TIAM1 stimulates the activity of RHO-like GTPases and thus connects extracellular signals to the cytoskeleton. Human TIAM1 is 1591 amino acids (aa) in length. It contains a myristoylation site at Gly2, plus two pleckstrin homology domains (aa 434 - 549 and 1261 - 1397), a Ras-binding region (aa 765 - 832) and a RhoGEF/DH domain (aa 1041 - 1232). Over aa 1 - 378, human TIAM1 shows 94% aa identity to mouse TIAM1.

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