Datasheet for ABIN5691131

anti-TIAM1 antibody (C-Term, Catalytic Domain)

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Overview

Quantity:	0.1 mL
Target:	TIAM1
Binding Specificity:	AA 904-1511, C-Term, Catalytic Domain
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TIAM1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Human Tiam1 (catalytic domain/ C-terminal domain) is an affinity purified rabbit polyclonal antiserum derived by injection of rabbits with a GST fusion protein with the C-terminal amino acids 904-1511 of Tiam 1. The antiserum was purified by affinity chromatography using the fusion protein coupled to glutathione agarose beads.
Specificity:	Human Tiam1 (catalytic domain/ C-terminal domain) recognizes the C-terminal amino acids 904-1511 of Tiam 1 containing the DH-PH regions.

Target Details

Target:	TIAM1

Target Details

Alternative Name:	Tiam 1 (TIAM1 Products)
Background:	Directional cell migration is essential for various physiological processes such as embryonic development, angiogenesis, wound healing, and tumor invasion. In response to extracellular and cell adhesion signals, cells acquire a polarized morphology with a leading edge at their front and a trailing tail at the rear. This front-rear polarity is established along the directional axis, with signaling molecules, adhesions, and the cytoskeleton distributed asymmetrically. The signaling molecules that control polarity include the Rho family GTPases, including Rac1. The Rac exchange factor Tiam1 participates in polarized cell migration. Tiam1 binds to integrins through talin and regulates Rac1 activity and adhesion turnover for polarized migration. Tiam 1 contains a Dbl homology (DH) or RhoGEF domain which consists of an ~ 150 amino acid region that induces Rho family GTPases to displace GDP. This effectively activates the Rho GTPase by allowing GTP binding, which is in excess over GDP in the cell. The DH domain is invariably preceded by a pleckstrin homology (PH) domain. While not absolutely required for catalysis of nucleotide exchange, the PH domain appears to greatly increase catalytic efficiency in many cases. Tiam1 (T-cell lymphoma invasion and metastasis inducing protein 1) was originally identified as an invasion-inducing gene. Thereafter several studies supported the suggestion that the Tiam1-Rac signaling pathway may be involved in the invasion and metastasis of tumor cells.

Application Details

Application Notes:	Human Tiam-1 (catalytic domain/ C-terminal domain) is suitable for immunoblotting, immunocytochemistry, and immunohistochemistry on frozen and paraffin-embedded tissues. Optimal antibody dilution should be determined by titration, recommended range is 1:100 - 1:200 for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1:100 - 1:1000 for immunoblotting applications.
Restrictions:	For Research Use only

Handling

Buffer:	Each vial contains 100 µL affinity purified rabbit antiserum containing 0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C

Handling

Storage Comment:	Store at 4°C, or in small aliquots at -20°C.

