Datasheet for ABIN2665209

anti-ISM1 antibody

1 Image

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Overview

Quantity:	25 µg
Target:	ISM1
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This ISM1 antibody is un-conjugated
Application:	Flow Cytometry (FACS)

Product Details

Clone:	B054B6
Isotype:	IgG2a kappa
Purification:	The antibody was purified by affinity chromatography.

Target Details

Target:	ISM1
Alternative Name:	Isthmin-1 (ISM1 Products)
Background:	Isthmin is a secreted protein, and it was initially identified in the Xenopus midbrain-hindbrain organizer (MHB) or isthmus organizer, where it is highly expressed. The MHB is an important signaling center in vertebrates and regulates the polarized morphological differentiation of the adjacent tectum and cerebellum. Mouse Isthmin is a 454 amino acid protein containing a Thrombospondin Type 1 Repeat (TSR) domain in the central region and an Adhesion-

Target Details

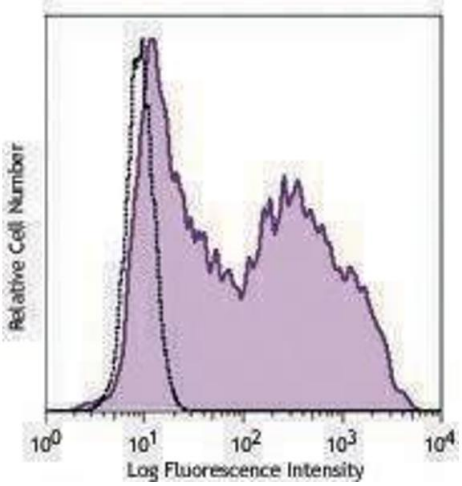
associated domain in MUC4 and Other Proteins (AMOP) domain at the C-terminal. The TSR domains are highly conserved with 98 % identity between mouse and human, 87-88 % identity between mouse and Xenopus. The C-terminal AMOP domains are also highly conserved with 99 % identity between mouse and human, 91 % identity between mouse and Xenopus. Mouse isthmin nucleotide sequence is similar to the human chromosome 20 open reading frame 82 (C20orf82). The Ism1 gene is conserved in human, chimpanzee, dog, cow, chicken, and zebrafish. Isthmin has angiostatic activity in vitro and in vivo. Isthmin inhibits EC capillary network formation mainly by interfering with the early stages of in vitro angiogenesis on matrigel. Isthmin inhibits VEGF-induced EC proliferation and induces apoptosis in the presence of VEGF. Overexpression of isthmin in B16 melanoma inhibits tumor growth and tumor angiogenesis in mice. Knockdown of isthmin in zebrafish embryos leads to abnormal intersegmental vessel (ISV) formation in the trunk.

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Concentration:	0.5 mg/mL
Buffer:	Phosphate-buffered solution, pH 7.2, 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
Storage Comment:	The antibody solution should be stored undiluted between 2°C and 8°C.



Flow Cytometry
Image 1.

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