

Product datasheet

Anti-Semaphorin 7a antibody [MEM-150] (FITC) ab26012

1 Image

Overview

Product name	Anti-Semaphorin 7a antibody [MEM-150] (FITC)
Description	Mouse monoclonal [MEM-150] to Semaphorin 7a (FITC)
Host species	Mouse
Conjugation	FITC. Ex: 493nm, Em: 528nm
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Mouse, Human
Immunogen	T cell line HPB-ALL. (Human)
General notes	The antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	Preservative: 15mM Sodium Azide Constituents: 0.2% BSA, PBS
Purity	>95% by SDS-PAGE
Purification notes	Size exclusion chromatography.
Clonality	Monoclonal
Clone number	MEM-150
Isotype	IgM

Applications

Our [Abpromise guarantee](#) covers the use of **ab26012** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
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Flow Cyt

Use 20µl for 10⁶ cells.

Use 20 µl per 100 µl of whole blood.

[ab91546](#) - Mouse monoclonal IgM, is suitable for use as an isotype control with this antibody.

Target

Function

Plays an important role in integrin-mediated signaling and functions both in regulating cell migration and immune responses. Promotes formation of focal adhesion complexes, activation of the protein kinase PTK2/FAK1 and subsequent phosphorylation of MAPK1 and MAPK3. Promotes production of proinflammatory cytokines by monocytes and macrophages. Plays an important role in modulating inflammation and T-cell-mediated immune responses. Promotes axon growth in the embryonic olfactory bulb. Promotes attachment, spreading and dendrite outgrowth in melanocytes.

Tissue specificity

Detected in skin keratinocytes and on endothelial cells from skin blood vessels (at protein level). Expressed in fibroblasts, keratinocytes, melanocytes, placenta, testis, ovary, spleen, brain, spinal chord, lung, heart, adrenal gland, lymph nodes, thymus, intestine and kidney.

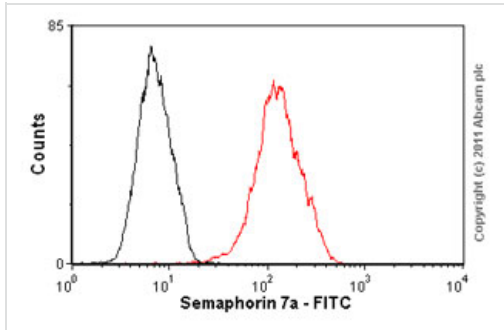
Sequence similarities

Belongs to the semaphorin family.
 Contains 1 Ig-like C2-type (immunoglobulin-like) domain.
 Contains 1 PSI domain.
 Contains 1 Sema domain.

Cellular localization

Cell membrane. Detected in a punctate pattern on the cell membrane of basal and supra-basal skin keratinocytes.

Images



Flow Cytometry - Anti-Semaphorin 7a antibody
[MEM-150] (FITC) (ab26012)

Overlay histogram showing Jurkat cells stained with ab26012 (red line). The cells were fixed with 80% methanol (5 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab26012, 1.2µg/1x10⁶ cells) for 30 min at 22°C. Isotype control antibody (black line) was mouse IgGM FITC (2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in Jurkat cells fixed with 4% paraformaldehyde used under the same conditions.

Please note that Abcam do not have any data for use of this antibody on non-fixed cells. We welcome any customer feedback.

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