abcam

ab95811

Biotin Anti-Thy1.1 antibody [HIS51]

Anti-Thy1.1 antibody [HIS51] conjugated to Biotin - suitable for flow cytometry, and reacts with rat samples. Clone [HIS51] is a mouse monoclonal antibody cited in 80 publications.

Key facts

Isotype	IgG2a
Host species	Mouse
Conjugation	Biotin
Storage buffer	pH: 7.2 Preservative: 0.09% Sodium azide Constituents: PBS, 0.87% Sodium chloride
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing Thy1 protein. The exact immunogen used to generate this antibody is proprietary information. Database link P01830
Clone number	HIS51
Purification technique	Affinity purification Protein G
Light chain type	kappa
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Rat

Dilution info	0.03-0.06 µg for 10^5-10^8 Cells
Notes	A final volume of 100 µL is recommended for staining the cell sample. ab18454 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Target data

See full target information Thy1

Function	May play a role in cell-cell or cell-ligand interactions during synaptogenesis and other events in the brain.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Storage information	Avoid freeze / thaw cycle

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Thy1.1 also known as CD90 is a cell surface glycoprotein with a mass of approximately 25-35 kDa. This protein is expressed on a variety of cells including T cells stem cells neurons and fibroblasts. Thy1.1 is important in cell-cell and cell-matrix interactions playing a role in cell adhesion and signaling. It is an important marker used to identify different cell populations especially in murine models. Researchers often study Thy1.1 for its role in immunology and neuroscience due to its widespread expression across different tissues.
Biological function summary	The functions of Thy1.1 involve cell communication and signal transduction. Thy1.1 does not form a known complex but interacts with other molecules to influence the cellular environment. It is involved in processes such as apoptosis inflammation and fibrosis. The protein facilitates cell activation and differentiation by interacting with integrins and other surface molecules further affecting cellular responses.

Pathways	Thy1.1 substantially participates in signaling pathways such as the T-cell receptor (TCR) signaling pathway and fibrosis-related pathways. In the TCR signaling pathway Thy1.1 modulates T cell activation and proliferation. Within fibrosis Thy1.1 involvement affects extracellular matrix regulation and fibrosis progression. It associates with proteins such as integrins and fibronectin which are important in these pathways contributing to diverse cellular outcomes.
Associated diseases and disorders	Thy1.1 shows connections to conditions like fibrosis and multiple sclerosis. In fibrosis Thy1.1 plays a role in the regulation of extracellular matrix deposition affecting tissue remodeling and repair. It interacts with proteins involved in fibrosis signaling such as transforming growth factor-beta (TGF-β). In the context of multiple sclerosis Thy1.1 expression impacts immune cell functions potentially influencing disease progression. Researchers study these associations to explore therapeutic strategies targeting Thy1.1-related pathways.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

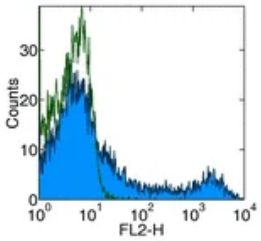
We do not recommend this combination. It is not covered by our product promise.

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1 product image



Flow Cytometry - Biotin Anti-Thy1.1 antibody [HIS51] (ab95811)

Thy1.1 Flow Cytometry staining using mouse Anti-Thy1.1 antibody

Flow cytometric analysis of Rat splenocytes with 0.03 µg of Anti-Mouse/Rat CD90.1 PE. Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

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