abcam

ab203022

Anti-Thy1.1 antibody

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.4 Preservative: 0.02% Proclin 300 Constituents: 50% Glycerol (glycerin, glycerine), 48.98% TBS, 1X, 1% BSA
Form	Liquid
Clonality	Polyclonal
Immunogen	Synthetic Peptide within Rat Thy1 aa 1-100 conjugated to Keyhole Limpet Haemocyanin. The exact immunogen used to generate this antibody is proprietary information. Database link P01830
Purification technique	Affinity purification Protein A
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Rat
Dilution info	1/100 - 1/500
Notes	Perform heat-mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Expected

Species	Mouse
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Sheep, Human
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Mouse
Dilution info	1/50
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Sheep, Human
Dilution info	-
Notes	-

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
Aliquoting information	Upon delivery aliquot
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

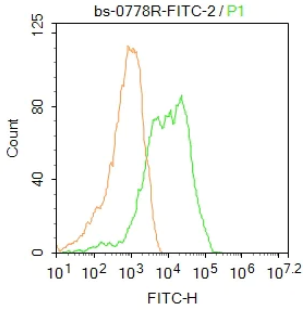
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
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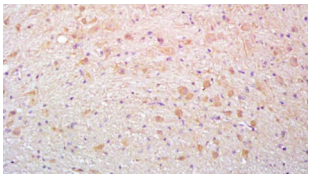
2 product images



Flow Cytometry - Anti-Thy1.1 antibody (ab203022)

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

Flow Cytometry of Mouse Kidney with ab217798 at 1/50



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Thy1.1 antibody (ab203022)

Thy1.1 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-Thy1.1 antibody

Immunohistochemical analysis of formalin/PFA-fixed paraffin-embedded rat brain tissue labeling Thy1.1 using ab203022 at a 1/200 dilution. DAB staining, followed by conjugation to the secondary antibody and DAB staining.

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