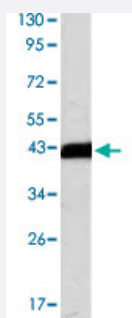


CD247 monoclonal antibody, clone 4B10

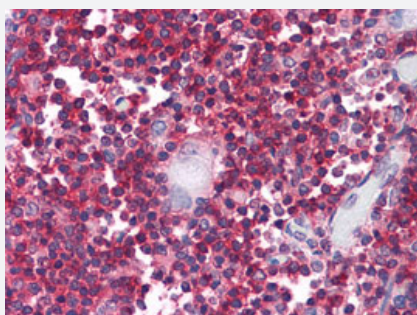
Catalog # MAB10531 Size 100 uL

Applications



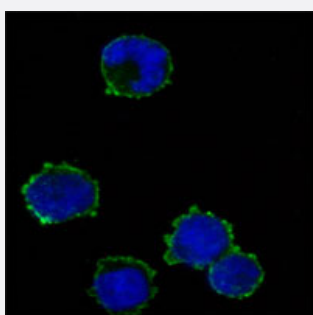
Western Blot (Transfected lysate)

Western blot analysis using CD247 monoclonal antibody, clone 4B10 (Cat # MAB10531) against CD247-hlgGfc transfected HEK293 cell lysate.



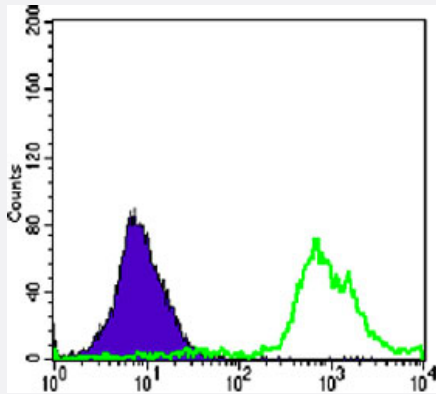
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human thymus tissues using CD247 monoclonal antibody, clone 4B10 (Cat # MAB10531).



Immunofluorescence

Immunofluorescence analysis of K-562 cells using CD247 monoclonal antibody, clone 4B10 (Cat # MAB10531) (green). Blue: DRAQ5 fluorescent DNA dye.



Flow Cytometry

Flow cytometric analysis of Jurkat cells using CD247 monoclonal antibody, clone 4B10 (Cat # MAB10531) (green) and negative control (purple).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant CD247.
Immunogen	Recombinant protein corresponding to human CD247.
Host	Mouse
Theoretical MW (kDa)	18
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry (1:200-1:1000) Immunofluorescence (1:200-1:1000) Flow cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

Western blot analysis using CD247 monoclonal antibody, clone 4B10 (Cat # MAB10531) against CD247-hlgGfc transfected HEK293 cell lysate.

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human thymus tissues using CD247 monoclonal antibody, clone 4B10 (Cat # MAB10531).

- Immunofluorescence

Immunofluorescence analysis of K-562 cells using CD247 monoclonal antibody, clone 4B10 (Cat # MAB10531) (green). Blue: DRAQ5 fluorescent DNA dye.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometric analysis of Jurkat cells using CD247 monoclonal antibody, clone 4B10 (Cat # MAB10531) (green) and negative control (purple).

Gene Info — CD247

Entrez GeneID

[919](#)

Gene Name

CD247

Gene Alias

CD3-ZETA, CD3H, CD3Q, CD3Z, T3Z, TCRZ

Gene Description

CD247 molecule

Omim ID

[186780 610163](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

The protein encoded by this gene is T-cell receptor zeta, which together with T-cell receptor alpha/beta and gamma/delta heterodimers, and with CD3-gamma, -delta and -epsilon, forms the T-cell receptor-CD3 complex. The zeta chain plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. Low expression of the antigen results in impaired immune response. Two alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq]

Other Designations

CD247 antigen, zeta subunit|CD3Z antigen, zeta polypeptide (TiT3 complex)|OTTHUMP00000032544|T-cell antigen receptor complex, zeta subunit of CD3|T-cell receptor T3 zeta chain|T-cell receptor zeta chain|T-cell surface glycoprotein CD3 zeta chain

Pathway

- [Natural killer cell mediated cytotoxicity](#)
- [T cell receptor signaling pathway](#)

Disease

- [Arthritis](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Lupus Erythematosus](#)
- [Osteoporosis](#)
- [Scleroderma](#)