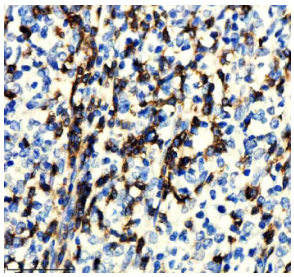
CD247 Antibody / CD3 zeta [clone IHI-3] (RQ8903)

Catalog No.	Formulation	Size
RQ8903	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

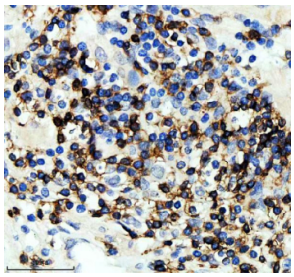
Recombinant RABBIT MONOCLONAL

Bulk quote request

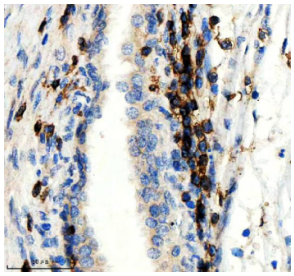
Availability	1-3 days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	IHI-3
Purity	Affinity chromatography
UniProt	P20963
Localization	Cell membrane
Applications	Western blot: 1:1000 Immunohistochemistry (FFPE): 1:50
Limitations	This CD247 antibody is available for research use only.



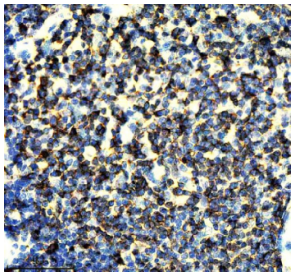
IHC staining of FFPE human lymphoma tissue with CD247 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



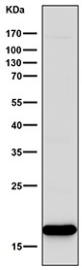
IHC staining of FFPE human prostate cancer tissue with CD247 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human prostate cancer tissue with CD247 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE rat thymus tissue with CD247 antibody, HRP-secondary and DAB substrate. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human Jurkat cell lysate with CD247 antibody. Predicted molecular weight ~19 kDa but may be observed at higher molecular weights due to glycosylation.

Description

CD247 (CD3 zeta) is a key signaling component of the T cell receptor (TCR) complex, essential for antigen recognition and T cell activation. It contains multiple immunoreceptor tyrosine-based activation motifs (ITAMs) that initiate downstream signaling cascades upon antigen engagement, leading to T cell proliferation and differentiation.

CD247 is predominantly expressed in T cells and natural killer (NK) cells, where it regulates immune responses against pathogens and abnormal cells. Alterations in CD247 expression or function have been linked to immunodeficiencies, autoimmune diseases, and cancer, making it a valuable focus for immunological research.

Using a high-quality CD247 antibody enables precise detection in applications such as western blot, flow cytometry, and immunohistochemistry. A CD247 antibody from NSJ Bioreagents ensures reproducibility and sensitivity for studies in T cell biology, immune signaling, and disease pathogenesis. Selecting the right CD247 antibody is essential for producing accurate and consistent research results.

Application Notes

Optimal dilution of the CD247 antibody should be determined by the researcher.

Immunogen

A peptide sequence specific to CD3 zeta protein was used as the immunogen for the CD247 antibody.

Storage

After reconstitution, the CD247 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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