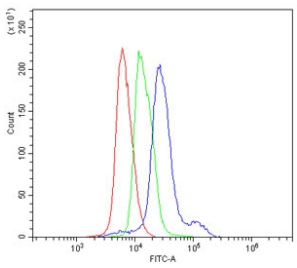
CD8A Antibody for FACS / Mouse Rat Flow Cytometry Antibody (RQ5874)

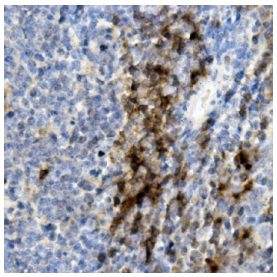
Catalog No.	Formulation	Size
RQ5874	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

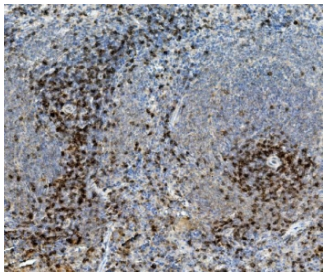
Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P01731
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry: 1-2ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This CD8A Antibody for FACS / Mouse Rat Flow Cytometry Antibody is available for research use only.



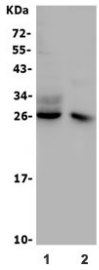
CD8A Antibody for FACS - Mouse spleen cells. Flow cytometry analysis of CD8 alpha (CD8A) in mouse spleen cells shows a distinct right-shifted population (blue) compared to isotype control (green) and unstained cells (red), consistent with cell surface expression on cytotoxic T lymphocytes and enabling clear gating of CD8-positive T cell populations in rodent immune samples.



CD8A Antibody Mouse Spleen IHC. Immunohistochemistry staining of FFPE mouse spleen with Cd8a antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



CD8A Antibody Rat Spleen IHC. Immunohistochemistry staining of FFPE rat spleen with Cd8a antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



CD8A Antibody Mouse and Rat WB. Western blot testing of 1) rat thymus and 2) mouse thymus lysate with Cd8a antibody. Expected molecular weight: 26-40 kDa depending on glycosylation level.

Description

CD8 alpha (CD8A) is a transmembrane glycoprotein expressed on cytotoxic T lymphocytes and plays a central role in T cell receptor-mediated immune responses through interaction with MHC class I molecules. CD8A Antibody for FACS is widely used to detect CD8 alpha on rodent immune cells, enabling flow cytometry-based identification and analysis of cytotoxic T cell populations in mouse and rat models. CD8A antibody, also referred to as CD8 alpha antibody or CD8 antigen antibody, is a key marker for studying T cell biology in preclinical systems.

CD8A is localized to the plasma membrane, allowing direct detection by flow cytometry without the need for intracellular staining. In FACS analysis of mouse and rat spleen-derived cell populations, CD8A staining produces a distinct positive population corresponding to cytotoxic T lymphocytes, enabling clear gating and discrimination from other immune cell types. Spleen cell preparations are particularly enriched for lymphocytes, making them well suited for evaluating CD8-positive T cell populations in rodent systems.

This rabbit polyclonal antibody is optimized for detection of CD8A in mouse and rat samples and demonstrates strong performance in spleen cell preparations. Validation in spleen-derived immune cells provides biologically relevant confirmation of CD8A expression in rodent lymphoid tissues, supporting its use in studies of T cell development, immune activation, and disease models. The polyclonal format may provide robust signal across multiple epitopes, which can be advantageous in detecting CD8A across different experimental conditions.

CD8A Antibody for FACS is particularly useful in preclinical research, where rodent models are used to investigate immune responses, tumor immunology, and therapeutic interventions. Flow cytometry detection of CD8A in mouse and rat systems enables quantification of cytotoxic T cell populations, monitoring of immune changes over time, and evaluation of treatment effects in vivo.

In addition to flow cytometry applications, this antibody is supported by immunohistochemistry and western blot data, allowing cross-validation of CD8A expression across multiple assay platforms. This multi-application compatibility

strengthens confidence in experimental results and supports integrated studies combining tissue-level, protein-level, and single-cell analyses. CD8A Antibody for FACS therefore serves as a versatile and reliable tool for rodent immune profiling and preclinical research workflows.

This antibody is part of a broader selection of immune cell marker antibodies designed to support studies of T cell biology, immune infiltration, and tumor immunology, including application-specific CD8A antibody reagents for IHC, FACS, WB, and IF.

Application Notes

Optimal dilution of the CD8A Antibody for FACS / Mouse Rat Flow Cytometry Antibody should be determined by the researcher.

Immunogen

Recombinant mouse protein (amino acids K39-K245) was used as the immunogen for the CD8A antibody.

Storage

After reconstitution, the CD8A antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

CD8A FACS antibody mouse rat, CD8 alpha rodent flow antibody, CD8A spleen cell antibody, CD8A polyclonal antibody, CD8A rodent immune marker antibody

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