

GMP APC anti-human CD8 Antibody

Catalog# / Size	260026 / 100 tests
Clone	SK1
Other Names	T8, Leu2
lsotype	Mouse IgG1, κ
Description	CD8a is a 32-34 kD type I glycoprotein. It forms a homodimer (CD8a/a) or heterodimer (CD8a/b) with CD8b. CD8, also known as T8 and Leu2, is a member of the immunoglobulin superfamily found on the majority of thymocytes, a subset of peripheral blood T cells, and NK cells (which express almost exclusively CD8a homodimers). CD8 acts as a co-receptor with MHC class I-restricted T cell receptors in antigen recognition and T cell activation and has been shown to play a role in thymic differentiation. Two domains in CD8a are important for function: the extracellular IgSF domain binds the α_3 domain of MHC class I and the cytoplasmic CXCP motif binds the tyrosine kinase p56 Lck.

Product Details

Reactivity	Human				
Antibody Type	Monoclonal				
Host Species	Mouse				
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA)				
Preparation	The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions.				
Concentration	25 μg/mL				
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze .				
Application	FC - Quality tested				
Recommended Usage	Each lot of this antibody is quality control tested by <u>immunofluorescent staining with</u> <u>flow cytometric analysis</u> . For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.				
Excitation Laser	Red Laser (633 nm)				
Application Notes	Clone SK1 recognizes the a chain of CD8. Additional reported applications (for the relevant formats) include: proteogenomics ⁸ , immunohistochemistry of acetone-fixed frozen tissue sections. This clone was tested in-house and does not demonstrate utility for formalin-fixed paraffin-embedded (FFPE) human tonsil sections.				
Application References	⁵ 1. Ledbetter JA, et al. 1981. J. Exp. Med. 153:310.				
(PubMed link indicates BioLegend citation)	 Campanelli R, et al. 2002. Intl. Immunol. 14:39. Evans RL, et al. 2002. Intl. Immunol. 14:39. Evans RL, et al. 1981. Immunol. 78:544. Wooldridge L, et al. 2005. J. Bio. Chem. 280:27491. Ch'el IL, et al. 2011. J Exp Med. 208:633. PubMed Carbone A, et al. 1999. Blood 93:2319. (IHC-F) Ahmed A, et al. 2001. J. Pathol. 193:383. (IHC) Peterson VM, et al. 2017. Nat. Biotechnol. 35:936. (PG) 				
Disclaimer	GMP RUO Flow Cytometry Antibodies. BioLegend GMP RUO fluorophore conjugated antibodies are manufactured in a dedicated GMP facility and compliant with ISO 13485:2016. For research use only. Not for use in diagnostic or therapeutic procedures. Our processes include:				

- Batch-to-batch consistency
- Material traceability
- Documented procedures
- Documented employee training
- · Equipment maintenance and monitoring records
- Lot-specific certificates of analysis
- Quality audits per ISO 13485:2016
- QA review of released products

Antigen Details

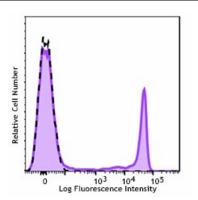
Structure	lg superfamily, homodimer or heterodimer with CD8b, 32-34 kD				
Distribution	Majority of thymocytes, T cell subset, NK cells				
Function	MHC class I co-receptor, thymic differentiation, T cell activation				
Ligand/Receptor	MHC Class I molecules				
Cell Type	NK cells, T cells, Thymocytes				
Biology Area	Immunology				
Molecular Family	CD Molecules				
Antigen References	1. Barclay N, et al. 1993. The Leucocyte Antigen FactsBook. Academic Press Inc. San Diego.				
Gene ID	925				

Related Protocols

Cell Surface Flow Cytometry Staining Protocol

Other Formats

Alexa Fluor® 647 anti-human CD8, Brilliant Violet 650[™] anti-human CD8, Purified anti-human CD8, FITC antihuman CD8, PE anti-human CD8, PerCP anti-human CD8, PerCP/Cyanine5.5 anti-human CD8, PE/Cyanine7 anti-human CD8, APC/Cyanine7 anti-human CD8, Alexa Fluor® 488 anti-human CD8, Pacific Blue[™] antihuman CD8, Biotin anti-human CD8, APC anti-human CD8, Alexa Fluor® 700 anti-human CD8, Purified antihuman CD8 (Maxpar® Ready), Brilliant Violet 510[™] anti-human CD8, Brilliant Violet 711[™] anti-human CD8, Brilliant Violet 785[™] anti-human CD8, Brilliant Violet 605[™] anti-human CD8, PE/Dazzle[™] 594 anti-human CD8, APC/Fire[™] 750 anti-human CD8, Brilliant Violet 421[™] anti-human CD8, TotalSeq[™]-A0046 anti-human CD8, TotalSeq[™]-C0046 anti-human CD8, Brilliant Violet 750[™] anti-human CD8, TotalSeq[™]-B0046 antihuman CD8, Spark Blue[™] 550 anti-human CD8, APC/Fire[™] 810 anti-human CD8, PE/Fire[™] 640 anti-human CD8, PE/Fire[™] 700 anti-human CD8, TotalSeq[™]-D0046 anti-human CD8



Typical results from human peripheral blood lymphocytes stained either with SK1 APC used at 5 μ L/test (filled histogram) or with an isotype control (open histogram).

Symbols Glossary*

Symbol	Meaning	Symbol Title	Symbol No.	Symbol	Meaning	Symbol Title	Symbol No.
REF	Catalog number	Catalogue number	5.1.6	Ĩ	Indicates the need for the user to consult the instructions for use.	Consult instructions for use	5.4.3
X	Indicates the temperature limits to which the medical device can be safely exposed.	Temperature limit	5.3.7	紊	Indicates a medical device that needs protection from light sources.	Keep away from sunlight	5.3.2
X	Indicates the upper limit of temperature to which the medical device can be safely exposed.	temperature	5.3.6	Σ	Indicates the date after which the medical device is not to be used.	Use-by date	5.1.4
•••	Indicates the medical device manufacturer.	Manufacturer		EC REP	Indicates the authorized representative in the European Community.	Authorized representative in the European Community	
LOT	Indicates the manufacturer's batch code so that the batch or lot can be identified.	Batch code	5.1.5	IVD	Indicates a medical device that is intended to be used as an in vitro diagnostic medical device.	In vitro diagnostic medical device	5.5.1

Symbol information is from EN ISO 15223-1:2016 Medical devices – Symbols to be used with medical device labels, labelling and information to

be supplied – Part 1: General requirements

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BioLegend Inc., 8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587