Version: 1 Revision Date: 03/16/2022

GMP FITC anti-human CD10 Antibody

Catalog# / Size	260064 / 100 tests
Clone	HI10a
Workshop	V CD10.7
Other Names	Common acute lymphoblastic leukemia antigen (CALLA), Enkephalinase, Neutral endopeptidase, Neprilysin
Isotype	Mouse IgG1, κ
Description	CD10 is a 100 kD neutral endopeptidase and a member of the metalloprotease family. It is a type II transmembrane protein also known as common acute lymphoblastic leukemia antigen (CALLA), enkephalinase, and neprilysin. CD10 is expressed on B cell precursors, T cell precursors, and neutrophils. CD10 is involved in B cell development and has been shown to bind opioid enkephalins, bradykinin, angiotensins I and II, and other biologically active peptides.

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 FITC under optimal conditions.
Concentration	200 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 immunofluorescent staining with flow cytometric analysis. 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	Blue Laser (488 nm)
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	Type II transmembrane metalloprotease family, 100 kD
Distribution	B cell precursors, T cell precursors, neutrophils
Function	Zinc-binding metalloproteinase, B cell development
Ligand/Receptor	Biologically active peptides including opioid enkephalins, bradykinin, angiotensions I & II
Cell Type	B cells, Neutrophils
Biology Area	Immunology
Molecular Family	CD Molecules
Antigen References	1. Shipp M, *et al.* 1993. *Blood* 82:1052. 2. Lu B, *et al.* 1995. *J. Exp. Med.* 181:2271.
Gene ID	4311

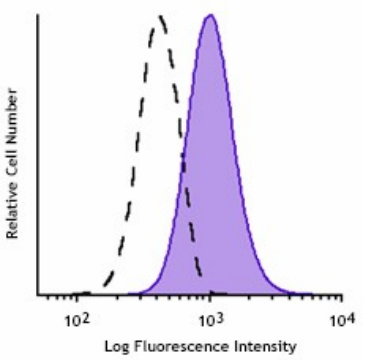
Related Protocols

Cell Surface Flow Cytometry Staining Protocol

Other Formats

Purified anti-human CD10, PE anti-human CD10, PE/Cyanine5 anti-human CD10, FITC anti-human CD10, APC anti-human CD10, APC/Cyanine7 anti-human CD10, PE/Cyanine7 anti-human CD10, PerCP/Cyanine5.5 anti-human CD10, Brilliant Violet 421™ anti-human CD10, Brilliant Violet 510™ anti-human CD10, Brilliant Violet 605™ anti-human CD10, Purified anti-human CD10 (Maxpar® Ready), Brilliant Violet 711™ anti-human CD10, PE/Dazzle™ 594 anti-human CD10, APC/Fire™ 750 anti-human CD10, TotalSeq™-A0062 anti-human CD10, TotalSeq™-C0062 anti-human CD10, TotalSeq™-B0062 anti-human CD10, Brilliant Violet 785™ anti-human CD10, TotalSeq™-D0062 anti-human CD10, GMP APC anti-human CD10

Product Data



Typical results from human peripheral blood granulocytes stained either with HI10a FITC used at 5 µL/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		Indicates the need for the user to consult the instructions for use.	Consult instructions for use	5.4.3
	Indicates the temperature limits to which the medical device can be safely exposed.	Temperature limit	5.3.7		Indicates a medical device that needs protection from light sources.	Keep away from sunlight	5.3.2
	Indicates the upper limit of temperature to which the medical device can be safely exposed.	Upper limit of temperature	5.3.6		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	5.1.1	EC REP	Indicates the authorized representative in the European Community.	Authorized representative in the European Community	5.1.2
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

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