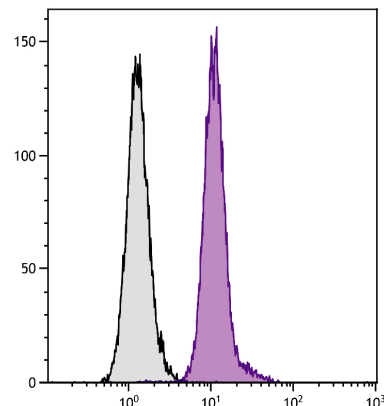




Mouse Anti-Human CD13

Cat. No.	Format	Size
9556-01	Purified (UNLB) Antibody	0.1 mg
9556-02	Fluorescein (FITC) Conjugate	100 tests
9556-02S	Fluorescein (FITC) Conjugate	25 tests
9556-09	R-phycoerythrin (PE) Conjugate	100 tests
9556-09S	R-phycoerythrin (PE) Conjugate	25 tests
9556-19	Allophycocyanin-Cyanine 7 (APC/CY7)	100 tests



Human peripheral blood monocytes and granulocytes were stained with Mouse Anti-Human CD13-UNLB (SB Cat. No. 9556-01) followed by Goat Anti-Mouse IgG_{2a}, Human ads-FITC (SB Cat. No. 1080-02).

Overview

Clone	22A5
Isotype	Mouse (BALB/c) IgG _{2a} K
Immunogen	Osteoclasts from osteoclastomas
Specificity	Human CD13, Mr 150 kDa
Alternate Name(s)	gp150, aminopeptidase N, APN, ANPEP
Workshop	N/A

Description

CD13, also known as aminopeptidase N, is a 150 kDa type II integral membrane glycoprotein. It is expressed on granulocytes, monocytes and their precursors, and on mast cells. CD13 is a zinc-binding metalloprotease that is involved in cell surface antigen presentation via its digestion of many MHC-bound regulatory peptides.

Applications

FC – Quality tested ^{3,4}
 IHC-FS – Reported in literature ¹⁻³
 IP ⁵

Working Dilutions

Flow Cytometry	Purified (UNLB) antibody	≤ 1 µg/10 ⁶ cells
	FITC, PE, and APC/CY7 conjugates	10 µL/10 ⁶ cells
For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL		

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.

Handling and Storage

- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The allophycocyanin-Cyanine 7 (APC/CY7) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

References

1. Horton MA, Lewis D, McNulty K, Pringle JA, Chambers TJ. Monoclonal antibodies to osteoclastomas (giant cell bone tumors): definition of osteoclast-specific cellular antigens. *Cancer Res.* 1985;45:5663-9. (Immunogen, IHC-FS)
2. Angelotti ML, Ronconi E, Ballerini L, Peired A, Mazzinghi B, Sagrinati C, et al. Characterization of renal progenitors committed toward tubular lineage and their regenerative potential in renal tubular injury. *Stem Cells.* 2012;30:1714-25. (IHC-FS)
3. Saho T, Kishida T, Hirano H, Hashikawa T, Shimabukuro Y, Murakami S. Induction of CD13 on T-lymphocytes by adhesive interaction with gingival fibroblasts. *J Dent Res.* 2003;82:893-8. (IHC-FS, FC)
4. Ashmun RA, Shapiro LH, Look T. Deletion of the zinc-binding motif of CD13/aminopeptidase N molecules results in loss of epitopes that mediate binding of inhibitory antibodies. *Blood.* 1992;79:3344-9. (FC)
5. Personal communication (IP)

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