

## Product datasheet for **AM00642BT-N**

### CD13 (ANPEP) Mouse Monoclonal Antibody [Clone ID: 22A5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	22A5
Applications:	FC, IHC
Recommended Dilution:	Suitable for use in <b>Flow Cytometry</b> and <b>Immunohistochemistry</b> (acetone-fixed frozen sections). We recommend using 1 µg to stain 1.0 x 10 <sup>6</sup> cells in Flow Cytometric applications.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A cell suspension containing osteoclasts from osteoclastomas
Specificity:	This antibody recognizes the (Mr 150-170kDa) cell surface glycoprotein expressed in a pan-myeloid fashion. This antibody also reacts with osteoclasts in giant cell tumors of bone (osteoclastoma), clear cell chondrosarcoma and aneurysmal bone cysts.
Formulation:	0.01M PBS, pH 7.2 containing 2mM EDTA, 1% BSA as stabilizer and 0.09% Sodium Azide as preservative. Label: Biotin State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Protein G Chromatography.
Conjugation:	Biotin
Storage:	Store the antibody undiluted at 2-8°C. <b>DO NOT FREEZE!</b>
Stability:	Shelf life: one year from despatch.
Gene Name:	alanyl aminopeptidase, membrane
Database Link:	<a href="#">Entrez Gene 290 Human P15144</a>



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**Background:**

CD13 also known as Aminopeptidase N is a zinc dependent exopeptidase which cleaves amino acids from the N-termini of target proteins including neuropeptides and cytokines. CD13 is expressed on all cells of the myeloid lineage as well as epithelial cells of the intestine, placenta, liver and kidney. CD13 is upregulated in a number of tumour types including lung, melanoma, thyroid and hepatocarcinoma and has been shown to correlate with poor prognosis. CD13 is a crucial molecule in tumour angiogenesis. CD13 is also the receptor for viruses from the coronavirus family.

**Synonyms:**

Aminopeptidase N, ANPEP, APN, PEPN