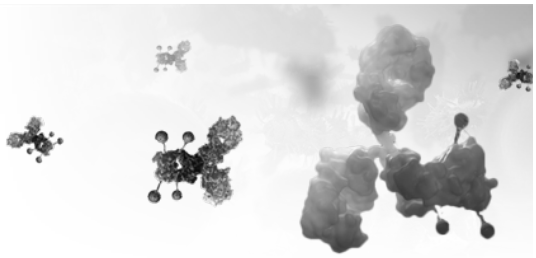

Mouse Anti-Human CD13 monoclonal antibody, clone JID124 (CABT-L2790)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This antibody is intended for qualified laboratories to qualitatively identify by light microscopy the presence of associated antigens in sections of formalin-fixed, paraffin-embedded tissue sections using IHC test methods.
Specificity	Human CD13
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	JID124
Conjugate	Unconjugated
Applications	IHC
Reconstitution	The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining. The concentrated antibody requires dilution in the optimized buffer, to the recommended working dilution range.
Positive Control	Liver
Format	Liquid
Size	Predilut: 7 ml, Concentrate: 100 µl, Concentrate: 1 ml
Buffer	Predilute: Antibody Diluent Buffer Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA

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Preservative	< 0.1% Sodium Azide
Storage	Store at 2-8°C. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	Cluster of differentiation 13 (CD13) is a transmembrane protein present on a number of different tissues and cell types including epithelial and endothelial cells, fibroblasts, leukocytes, and fibroblasts, and is believed to affect tumour progression. It is overexpressed in both haematological and solid malignancies, including Acute Myeloid Leukemia (AML). Although hypogranular variants of AML are difficult to separate from other AML subtypes due to the morphology, through use a panel of CD13(+), CD16(-), CD33(+), CD34(+), and CD117(+), the diagnosis of this variant is possible. Alternatively, a panel of CD13, CD34, CD43, CD68, CD117, CD163, lysozyme, and MPO is very useful for accurately diagnosing myeloid sarcoma and distinguishing it from large cell lymphoma, undifferentiated carcinoma, lymphoblastic lymphoma, malignant melanoma, Burkitt lymphoma, extra-medullary hematopoiesis, and inflammation. Since CD13 is expressed in both normal and neoplastic liver tissues, CD13 staining is useful for distinguishing between hepatocellular carcinoma and non-hepatocellular neoplasms.
Keywords	ANPEP;alanyl (membrane) aminopeptidase;APN;CD13;P150;aminopeptidase N;AP-M;AP-N;bAPN;aminopeptidase M;alanyl aminopeptidase;microsomal aminopeptidase;

GENE INFORMATION

Gene Name	ANPEP alanyl (membrane) aminopeptidase [Homo sapiens (human)]
Official Symbol	ANPEP
Synonyms	ANPEP; alanyl (membrane) aminopeptidase; APN; CD13; LAP1; P150; PEPN; GP150; aminopeptidase N; AP-M; AP-N; hAPN; aminopeptidase M; alanyl aminopeptidase; microsomal aminopeptidase; myeloid plasma membrane glycoprotein CD13;
Entrez Gene ID	290
Protein Refseq	NP_001141
UniProt ID	A0A024RC61
Chromosome Location	15q25-q26
Pathway	C-MYB transcription factor network; Cardiac Progenitor Differentiation; Glutathione metabolism;

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	Hematopoietic cell lineage; Metabolic pathways; Metabolism of Angiotensinogen to Angiotensins; Metabolism of proteins; Peptide hormone metabolism;
Function	aminopeptidase activity; metallopeptidase activity; receptor activity; virus receptor activity; zinc ion binding;

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