

CD38 (PTR1378) recombinant mouse mAb

Catalog No :	YM4679
Reactivity :	Human
Applications :	FCM;ELISA
Target :	CD38
Gene Name :	CD38
Protein Name :	ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase 1 (EC 3.2.2.6) (2'-phospho-ADP-ribosyl cyclase) (2'-phospho-ADP-ribosyl cyclase/2'-phospho-cyclic-ADP-ribose transferase) (EC 2.4.99.20) (2'-phospho-cyc
Human Gene Id :	952
Human Swiss Prot No :	P28907
Immunogen :	Purified recombinant Human CD38
Specificity :	This recombinant monoclonal antibody can detects endogenous levels of CD38 protein.
Formulation :	Phosphate-buffered solution
Source :	Monoclonal,Mouse,IgG1,kappa
Dilution :	ELISA 1:5000-100000;FCM 1-2µg/Test
Purification :	Recombinant Expression and Affinity purified
Concentration :	Please check the information on the tube
Storage Stability :	-15°C to -25°C/1 year(Avoid freeze / thaw cycles)
Background :	The protein encoded by This gene is a non-lineage-restricted, type II transmembrane glycoprotein that synthesizes and hydrolyzes cyclic adenosine 5'–diphosphate-ribose, an intracellular calcium ion mobilizing messenger.

The release of soluble protein and the ability of membrane-bound protein to become internalized indicate both extracellular and intracellular functions for the protein. This protein has an N-terminal cytoplasmic tail, a single membrane-spanning domain, and a C-terminal extracellular region with four N-glycosylation sites. Crystal structure analysis demonstrates that the functional molecule is a dimer, with the central portion containing the catalytic site. It is used as a prognostic marker for patients with chronic lymphocytic leukemia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015]

Function :

catalytic activity: $\text{NAD}(+) + \text{H}_2\text{O} = \text{ADP-ribose} + \text{nicotinamide}$., developmental stage: Preferentially expressed at both early and late stages of the B and T-cell maturation. It is also detected on erythroid and myeloid progenitors in bone marrow, where the level of surface expression was shown to decrease during differentiation of blast-forming unit E to colony-forming unit E., enzyme regulation: ATP inhibits the hydrolyzing activity., Synthesizes cyclic ADP-ribose, a second messenger for glucose-induced insulin secretion. Also has cADPr hydrolase activity. Also moonlights as a receptor in cells of the immune system., online information: CD38 entry, similarity: Belongs to the ADP-ribosyl cyclase family., tissue specificity: Expressed at high levels in pancreas, liver, kidney, brain, testis, ovary, placenta, malignant lymphoma and neuroblastoma.,

Subcellular**Location :**

Membrane; Single-pass type II membrane protein.

Expression :

Expressed at high levels in pancreas, liver, kidney, brain, testis, ovary, placenta, malignant lymphoma and neuroblastoma.

Products Images