



CD38 (ABT130R) Rabbit mAb (Ready to Use)

Catalog No	YP-rAb-18140
Isotype	IgG
Reactivity	Human
Applications	IHC
Gene Name	CD38
Protein Name	ADP-ribosyl cyclase 1 (EC 3.2.2.5) (Cyclic ADP-ribose hydrolase 1) (cADPr hydrolase 1) (T10) (CD antigen CD38)
Purification Process	Protein A
Specificity	This antibody detects endogenous levels of CD38
Formulation	The prediluted ready-to-use antibody is diluted in phosphate buffer saline containing stabilizing protein and 0.05% Proclin 300
Source	Monoclonal, Rabbit,IgG
Dilution	Ready to use for IHC Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	2° C to 8° C/1 year,Ship by ice bag
Synonyms	Acute lymphoblastic leukemia cells antigen CD38 ; ADP ribosyl cyclase 1 ; ADP ribosyl cyclase ; ADP ribosyl cyclase/cyclic ADP-ribose hydrolase ; ADP-ribosyl cyclase 1 ; ADPRC 1 ; ADPRC1 ; cADPr hydrolase 1 ; CD 38 ; CD38 ; CD38 antigen (p45) ; CD38 antigen ; CD38 molecule ; Cd38-rs1 ; CD38_HUMAN ; CD38H ; Cyclic ADP ribose hydrolase ; Cyclic ADP ribose hydrolase 1 ; Cyclic ADP-ribose hydrolase 1 ; EC 3.2.2.5 ; Ecto nicotinamide adenine dinucleotide glycohydrolase ; I-19 ; I19 (Mouse) ; Lymphocyte differentiation antigen CD38 ; NAD(+) nucleosidase ; NIM-R5 antigen ; NIMR5 antigen (Mouse) ; OTTHUMP00000158633 ; OTTHUMP00000217743 ; p45 ; T10
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Membranous
Tissue Specificity	Expressed at high levels in pancreas, liver, kidney, brain, testis, ovary, placenta, malignant lymphoma and neuroblastoma.





Function

catalytic activity:NAD(+) + H(2)O = ADP-ribose + 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.,function: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.,

Background

The protein encoded byThis 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 andThe ability of membrane-bound protein to become internalized indicate both extracellular and intracellular functions forThe 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 thatThe functional molecule is a dimer, withThe central portion containingThe 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],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

