

CD38 Monoclonal Antibody

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|------------------------------|---|
| Catalog No : | YM0122 |
| Reactivity : | Human |
| Applications : | WB;IHC;IF;ELISA |
| Target : | CD38 |
| Fields : | >>Nicotinate and nicotinamide metabolism;>>Metabolic pathways;>>Calcium signaling pathway;>>Hematopoietic cell lineage;>>Oxytocin signaling pathway;>>Salivary secretion;>>Pancreatic secretion |
| Gene Name : | CD38 |
| Protein Name : | ADP-ribosyl cyclase 1 |
| Human Gene Id : | 952 |
| Human Swiss Prot No : | P28907 |
| Mouse Swiss Prot No : | P56528 |
| Immunogen : | Purified recombinant fragment of human CD38 expressed in E. Coli. |
| Specificity : | CD38 Monoclonal Antibody detects endogenous levels of CD38 protein. |
| Formulation : | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source : | Monoclonal, Mouse |
| Dilution : | WB 1:500 - 1:2000. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200 |
| Purification : | Affinity purification |
| Storage Stability : | -15°C to -25°C/1 year(Do not lower than -25°C) |
| Molecularweight : | 34kD |

Cell Pathway : Nicotinate and nicotinamide metabolism;Calcium;Hematopoietic cell lineage;

P References :

1. Trends Biochem Sci. 1992 Dec;17(12):495.
2. J Cell Biol. 1999 Sep 6;146(5):1161-72.
3. Exp Hematol. 2002 Jun;30(6):582-9.
4. Mol Immunol. 2006 Mar;43(7):1029-39.

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: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.,

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.

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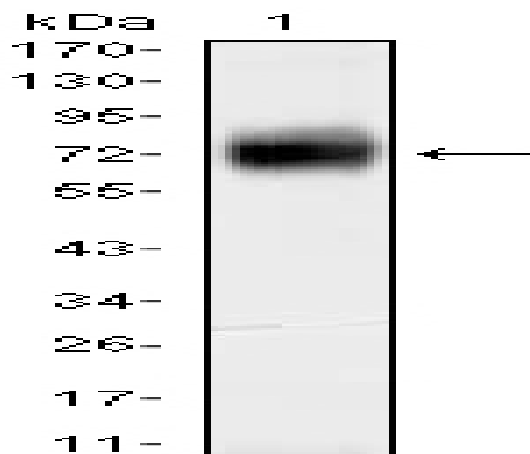
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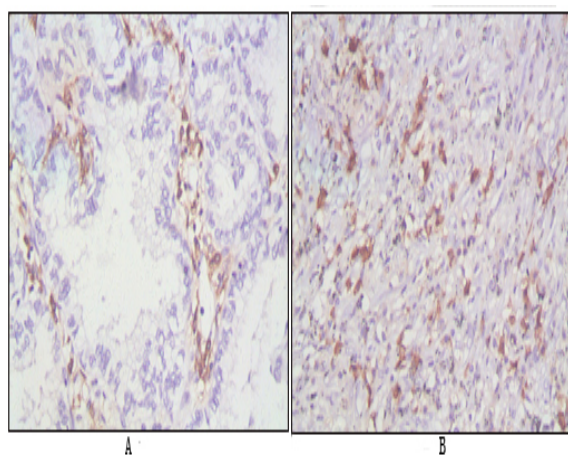
Host : Mouse

Modifications : Unmodified

Products Images



Western Blot analysis using CD38 Monoclonal Antibody against CD38-hlgGfc transfected HEK293 cell lysate.



Immunohistochemistry analysis of paraffin-embedded human lung cancer (A), lymphonodus tissue (B), showing cytomembrane localization with DAB staining using CD38 Monoclonal Antibody.