

## CD38 (PN0453) Nb-FC recombinant antibody

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|------------------------------|--|
| <b>Catalog No :</b>          | YA0347   |
| <b>Reactivity :</b>          | Human  |
| <b>Applications :</b>        | ELISA  |
| <b>Target :</b>              | CD38   |
| <b>Gene Name :</b>           | CD38   |
| <b>Protein Name :</b>        | 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 |
| <b>Human Gene Id :</b>       | 952  |
| <b>Human Swiss Prot No :</b> | P28907   |
| <b>Immunogen :</b>           | Purified recombinant Human CD38  |
| <b>Specificity :</b>         | This recombinant monoclonal antibody can detects endogenous levels of CD38 protein.  |
| <b>Formulation :</b>         | Phosphate-buffered solution  |
| <b>Source :</b>              | Camel, chimeric fusion of Nanobody (VHH) and mouse IgG1 Fc domain , recombinantly produced from 293F cell  |
| <b>Dilution :</b>            | ELISA 1:5000-100000  |
| <b>Purification :</b>        | Recombinant Expression and Affinity purified   |
| <b>Concentration :</b>       | Please check the information on the tube   |
| <b>Storage Stability :</b>   | -15°C to -25°C/1 year(Avoid freeze / thaw cycles)  |
| <b>Background :</b>          | 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 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