



Anti-CD38 Antibody

Alternative Names: T10, 2'-phospho-ADP-ribosyl cyclase, 2'-phospho-cyclic-ADP-ribose transferase, ADP-ribosyl cyclase 1, ADPRC1, Cyclic ADP-ribose hydrolase 1, cADPr hydrolase 1

Catalogue Number: AB21-10136-50ug

Size: 50 µg

Background Information

CD38 is a widely expressed 45 kDa transmembrane glycoprotein with a short cytoplasmic tail (aa 1–21), a transmembrane domain (aa 22–42) and an extracellular domain (aa 43–300) [1]. It is a multifunctional ectoenzyme catalysing multiple reactions and also has a role in signal transduction and calcium signaling.

In the brain CD38 is expressed in neurons, astrocytes and microglial cells and expression was found to increase under neuroinflammatory conditions indicating that it may have a role in the regulation of neuroinflammation. In Alzheimer's disease, CD38 immunoreactivity is seen in intracellular tangles and neuropil threads [2].

Product Information

Antibody Type:	Polyclonal Antibody	Host:	Rabbit
Isotype:	IgG	Species Reactivity:	Human, Rat
Immunogen:	A synthetic peptide from the C-terminal region of human CD38		
Format:	50 µg in 50 µl Buffer: PBS with 0.03% Proclin300, 50% glycerol, pH7.3.		
Storage Conditions:	Store at -20°C. Avoid freeze / thaw cycles.		
Applications:	WB 1:500-2000. IHC 1:50-200.		

Additional Information

Subcellular location:	Plasma Membrane	MW:	34kDa (Intended as a general guide and does not allow for all isoforms and species variations)
Gene ID	952	Uniprot ID:	P28907

References

[1] Malavasi, F.; Deaglio, S.; Funaro, A.; Ferrero, E.; Horenstein, A.L.; Ortolan, E.; Vaisitti, T.; Aydin, S. Evolution and Function of the ADP Ribosyl Cyclase/CD38 Gene Family in Physiology and Pathology. *Physiol. Rev.* 2008, 88, 841–886.

[2] Otsuka K., Mizuguchi M., Aizawa T., Haga S., Sato M., Inoya H., Namba Y., Machinami R. Immunoreactivity in Alzheimer's neurofibrillary tangles (abstract) *Brain Pathol.* 1994;4:558.

Images

