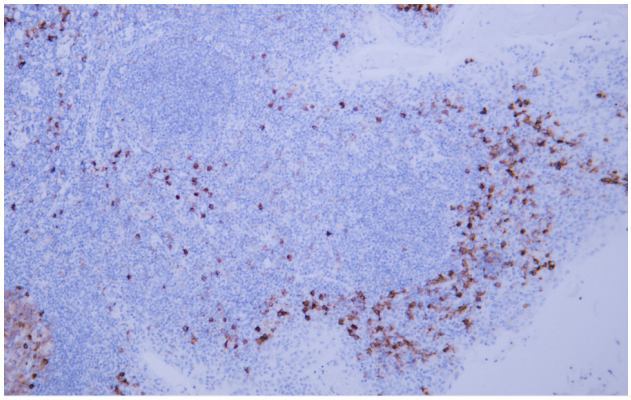
CD38 mouse mAb(ABT298)

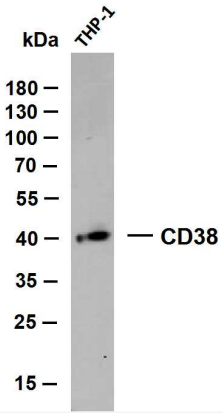
Catalog No	BYab-15553
Isotype	IgG
Reactivity	Human
Applications	IHC,WB
Gene Name	CD38
Protein Name	CD38
Immunogen	Synthesized peptide derived from human CD38
Specificity	The antibody can specifically recognize human CD38 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.126% sodium azide.
Source	Mouse, Monoclonal/IgG2b, Kappa
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using specific immunogen.
Dilution	IHC-p 1:100-500, WB 1:200-1000, IF 1:100-500
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ADP-ribosyl cyclase 1 (EC 3.2.2.5;Cyclic ADP-ribose hydrolase 1;cADPr hydrolase 1;T10;CD antigen CD38)
Observed Band	
Cell Pathway	Membrane; Single-pass type II membrane protein.
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 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],
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.

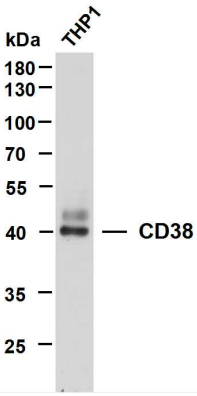
Products Images



Human tonsil tissue was stained with Anti-CD38 (ABT298) AntibodySecondary Antibody was Goat anti Rabbit/Mouse polymer HRP, Ready to Use(RS0011) at 37° 45min.



Whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-CD38 (ABT298)antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: THP-1 Predicted band size: 38kDa Observed band size: 38kDa



THP1 whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-CD38(ABT298) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: THP1 Predicted band size: 34kDa Observed band size: 40kDa