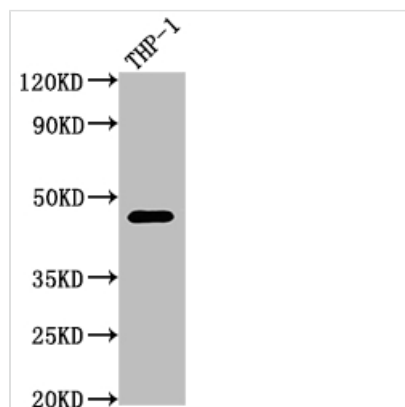




CD38 Recombinant Monoclonal Antibody

Product Code	CSB-RA796695A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P28907
Immunogen	A synthesized peptide derived from human CD38
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
Relevance	Synthesizes the second messengers cyclic ADP-ribose and nicotinate-adenine dinucleotide phosphate, the former a second messenger for glucose-induced insulin secretion. Also has cADPr hydrolase activity. Also moonlights as a receptor in cells of the immune system.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer; Immunology; Metabolism; Stem cells
Gene Names	CD38
Clone No.	6F10

Image



Western Blot

Positive WB detected in: THP-1 whole cell lysate

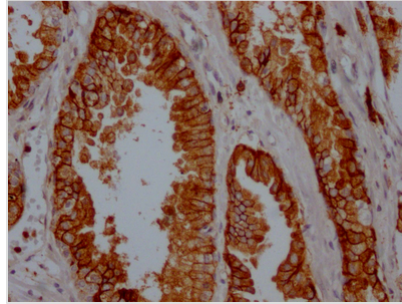
All lanes: CD38 antibody at 1:2000

Secondary

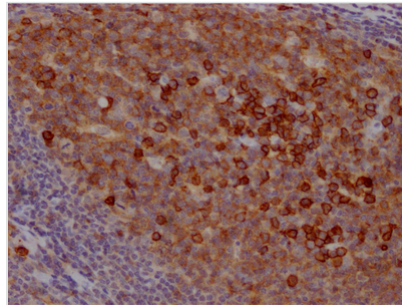
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 35, 14 kDa

Observed band size: 42 kDa



IHC image of CSB-RA796695A0HU diluted at 1:100 and staining in paraffin-embedded human prostate cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4^o overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA796695A0HU diluted at 1:100 and staining in paraffin-embedded human tonsil tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4^o overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

The generation of this recombinant CD38 antibody occurs in a series of steps: immunization, splenocytes & PBMC, single B cell sorting, mRNA extraction, RT-PCR & insert vector, expression, ELISA validation. And ELISA, WB, IHC was carried out Every step was performed under strict standards to ensure the researchers can have a recombinant CD38 antibody with premium quality.

CD38 is a multifunctional ecto-enzyme responsible for the metabolism of extracellular nicotinamide adenine dinucleotide (NAD⁺) to produce ADPR and cyclic ADPR. It controls extra-cellular nucleotide homeostasis and intra-cellular calcium fluxes. CD38 is involved in immunomodulation, cancer, aging, and metabolic diseases. In addition to ectoenzymatic activity, CD38 also functions as a receptor and adhesion molecule acting in cell adhesion, migration, and signal transduction.