



CD40 / TNFRSF5 / CD40L-Receptor Antibody

Mouse Monoclonal Antibody [Clone C40/2383]

Catalog No	Format	Size
958-MSM3-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
958-MSM3-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
958-MSM3-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

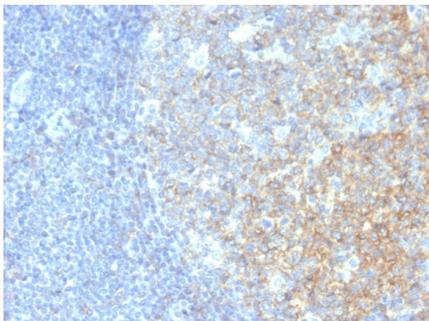
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes
Western Blot (WB)	2-4ug/ml	

Product Details

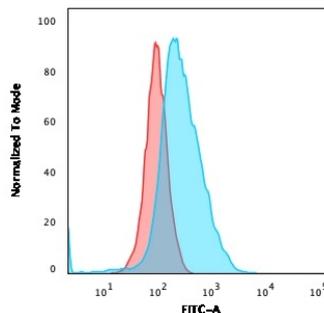
Clone	C40/2383
Gene Name	CD40
Immunogen	Recombinant fragment of human CD40 protein (around aa 29-107) (exact sequence is proprietary)
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b / Kappa
Mol. Weight of Antigen	43kDa
Cellular Localization	Cell membrane, Secreted
Species Reactivity	Human
Positive Control	spleen or thymus.,Raji, U2OS or L-428 cells. Human tonsil

*Optimal dilution for a specific application should be determined.

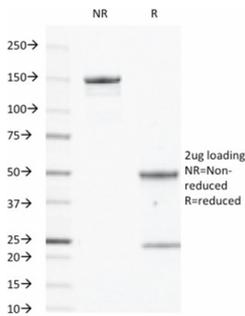
Product Images for CD40 / TNFRSF5 / CD40L-Receptor Antibody



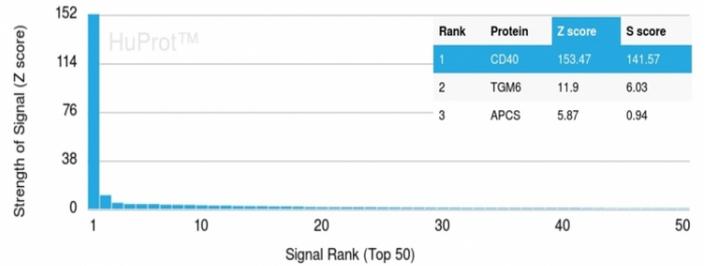
Formalin-fixed, paraffin-embedded human tonsil stained with CD40 Mouse Monoclonal Antibody (C40/2383).



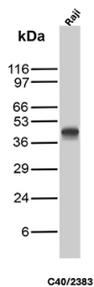
Flow Cytometric Analysis of U2OS cells using Monospecific Mouse Monoclonal Antibody to CD40 (C40/2383) followed by goat anti-mouse IgG-CF488 (blue); isotype control (red).



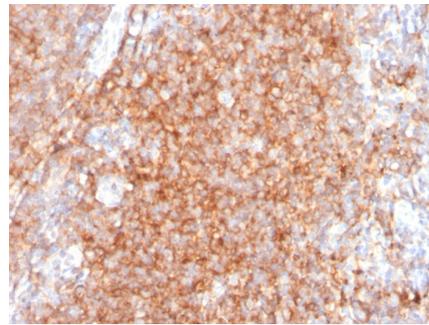
SDS-PAGE Analysis of Purified CD40 Mouse Monoclonal Antibody (C40/2383). Confirmation of Integrity and Purity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteins using Monospecific Mouse Monoclonal Antibody to CD40 (C40/2383). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Western Blot Analysis of Raji lysate using CD40 Mouse Monoclonal Antibody (C40/2383).



Formalin-fixed, paraffin-embedded human tonsil stained with CD40 Mouse Monoclonal Antibody (C40/2383).

Specificity & Comments

CD40 is a receptor on antigen-presenting cells of the immune system and is essential for mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. AT-hook transcription factor AKNA is reported to coordinately regulate the expression of this receptor and its ligand, which may be important for homotypic cell interactions. Adaptor protein TNFR2 interacts with this receptor and serves as a mediator of the signal transduction. The interaction of this receptor and its ligand is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis. CD40 is expressed on B-lymphocytes, follicular dendritic cells, bone marrow-derived dendritic cells, thymic epithelium, and interdigitating cells in the T-cell zones of secondary lymphoid organs.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200µg/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Cardiovascular, Immunology, AKT Signaling, B Cell Markers, Complement System, Cytokine Signaling, Immune checkpoint