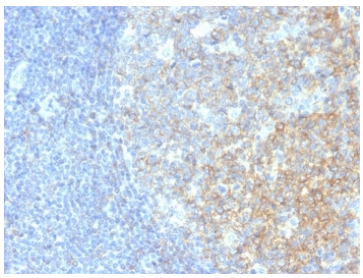
CD40 Antibody [clone C40/2383] (V3938)

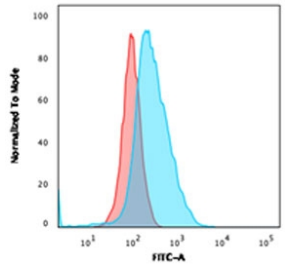
Catalog No.	Formulation	Size
V3938-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3938-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3938SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

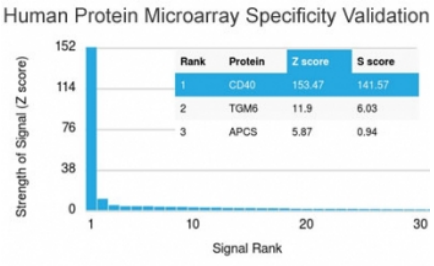
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	C40/2383
Purity	Protein G affinity chromatography
UniProt	P25942
Localization	Cell surface, cytoplasmic
Applications	ELISA (order BSA/sodium azide-free format for coating) Flow cytometry: 1-2ug/10^6 cells Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Western blot: 2-4ug/ml
Limitations	This CD40 antibody is available for research use only.



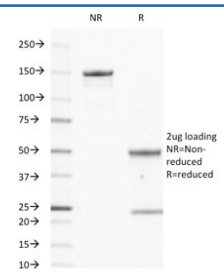
IHC testing of human tonsil with CD40 antibody (clone C40/2383). HIER: boil tissue sections in pH9 EDTA for 10-20 min.



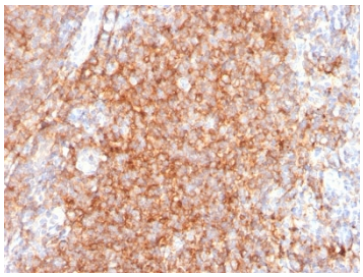
Flow cytometry testing of human U-2 OS cells with CD40 antibody (clone C40/2383); Red=isotype control, Blue= CD40 antibody.



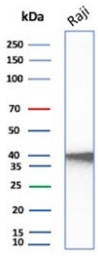
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using CD40 antibody (clone C40/2383). These results demonstrate the foremost specificity of the C40/2383 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free CD40 antibody (clone C40/2383) as confirmation of integrity and purity.



IHC testing of human tonsil with CD40 antibody (clone C40/2383). HIER: boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min.



Western blot testing of human Raji cell lysate with CD40 antibody. Expected molecular weight is 30-45 kDa depending on glycosylation level.

Description

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.

Application Notes

Optimal dilution of the CD40 antibody should be determined by the researcher.

Immunogen

A portion of amino acids 29-107 from the human protein was used as the immunogen for the CD40 antibody.

Storage

Store the CD40 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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