

Product Datasheet

CD40/TNFRSF5 Antibody (A54 scFv) - Chimeric - Azide and BSA Free

NBP2-81101-0.2mg

Unit Size: 0.2 mg

Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.

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NBP2-81101-0.2mg

CD40/TNFRSF5 Antibody (A54 scFv) - Chimeric - Azide and BSA Free

Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.
Clonality	Monoclonal
Clone	A54 scFv
Preservative	0.02% Proclin 300
Isotype	IgG Lambda
Purity	Protein A purified
Buffer	PBS

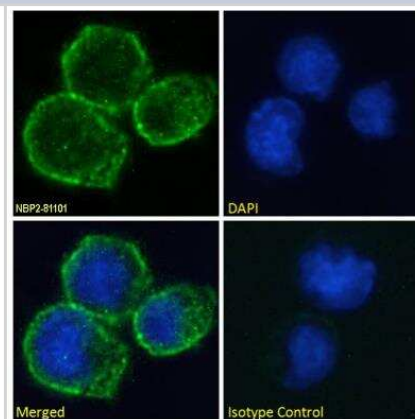
Product Description	
Description	Novus Biologicals Rabbit CD40/TNFRSF5 Antibody (A54 scFv) - Chimeric - Azide and BSA Free (NBP2-81101) is a recombinant monoclonal antibody validated for use in ELISA and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	958
Gene Symbol	CD40
Species	Human
Specificity/Sensitivity	A54 binds specifically to the D1 domain of CD40/TNFRSF5 (and can only bind to the intact i.e. non-truncated version of CD40/TNFRSF5 and when an AD2 peptide tag has not been added) and can recognise CD40/TNFRSF5 on a B cell line (BJAB). This scFv binds to CD40/TNFRSF5 (immobilized by amine coupling) with a KD within the range of 40nM. CD40/TNFRSF5 is a glycoprotein of the TNFR superfamily and is expressed on all mature B cells, dendritic cells, activated monocytes, some endothelial cells and some epithelium including the thymus. CD40/TNFRSF5 binds to the membrane protein CD154 of the TNF superfamily and this interaction is required for the secondary immune responses and germinal centre formation.
Immunogen	A54 human anti-CD40/TNFRSF5 scFv was selected from the n-CoDeR phage display library after 4 rounds of selections using biotinylated CD40-Fcγ fusion protein as bait and subsequent capture of bound phages on streptavidin-coated magnetic beads.

Product Application Details	
Applications	ELISA, Functional, Immunocytochemistry/ Immunofluorescence, Block/Neutralize
Recommended Dilutions	ELISA, Immunocytochemistry/ Immunofluorescence, Functional, Block/Neutralize
Application Notes	This full-length, chimeric rabbit antibody was made using the variable domain sequences of the original Human scFv format, for improved compatibility with existing reagents, assays and techniques. A54 is able to block the CD40-CD154 interaction by around 60-80% and can also induce CD40 signalling in human B cells when at 'unusually high concentrations' (The CD40 receptor - target, tool and technology, Ellmark, 2002). This scFv can also be used for ELISA studies (PMID: 12153507)



Images

Immunocytochemistry/Immunofluorescence: CD40/TNFRSF5 Antibody (A54 scFv) [NBP2-81101] - Immunofluorescence staining of fixed Daudi cells with [NBP2-81101]. Immunofluorescence analysis of paraformaldehyde fixed Daudi cells on Shi-fix coverslips, permeabilized with 0.15% Triton and stained with the chimeric rabbit IgG version of A54 scFv [NBP2-81101] at 10 ug/ml for 1h followed by Alexa Fluor 488 secondary antibody (1 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom NBP2-81101, DAPI, merged channels and an isotype control. The isotype control was stained with an anti-Fluorescein antibody followed by Alexa Fluor 488 secondary antibody.





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Products Related to NBP2-81101-0.2mg

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-52199-0.05mg	Recombinant Mouse CD40/TNFRSF5 His Protein
210-TA-005	TNF-alpha [Unconjugated]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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