

# Product Datasheet

## CD40/TNFRSF5 Antibody (5D12) [Alexa Fluor® 647] NBP2-81104AF647

Unit Size: 0.1 ml

Store at 4C in the dark.

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**NBP2-81104AF647**

CD40/TNFRSF5 Antibody (5D12) [Alexa Fluor® 647]

<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C in the dark.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	5D12
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG4 Kappa
<b>Conjugate</b>	Alexa Fluor 647
<b>Purity</b>	Protein A purified
<b>Buffer</b>	50mM Sodium Borate
<b>Product Description</b>	
<b>Host</b>	Human
<b>Gene ID</b>	958
<b>Gene Symbol</b>	CD40
<b>Species</b>	Human, Cynomolgus Monkey
<b>Reactivity Notes</b>	Expected to react with Marmoset Monkey.
<b>Specificity/Sensitivity</b>	ch5D12 binds specifically to recombinant and native human CD40/TNFRSF5 ectodomain and has been shown to also bind CD40/TNFRSF5 in cynomolgus and marmoset monkeys. The antibody requires residues within D1 and D1/B2 for binding (Hager et al, 2003) (D1 domain is crucial for CD40L binding). Binding characteristics are very similar between humanized ch5D12 and mu5D12. 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 CD40L, and this interaction is involved in B-cell activation and proliferation, antigen-presenting cell (APC) activation, initiation of antigen-specific T-cell responses, immunoglobulin production, activation of effector macrophages isotype switching, homotypic adhesion and rescue from apoptosis.
<b>Immunogen</b>	Anti-CD40/TNFRSF5 mAb 5D12, was generated by immunizing mice with sf9 insect cells expressing recombinant human CD40/TNFRSF5 and selected for the ability to bind EBV-immortalized human B cells. The variable regions from mu5D12 were cloned and used to construct chimeric humanized IgG4 5D12.

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<b>Product Application Details</b>	
<b>Applications</b>	ELISA, Flow Cytometry, Immunohistochemistry, Immunoprecipitation, Block/Neutralize, Surface Plasmon Resonance
<b>Recommended Dilutions</b>	Flow Cytometry, ELISA, Immunohistochemistry, Immunoprecipitation, Surface Plasmon Resonance, Block/Neutralize
<b>Application Notes</b>	Optimal dilution of this antibody should be experimentally determined.

## Images

CD40/TNFRSF5 Antibody (5D12) [Alexa Fluor® 647] [NBP2-81104AF647] - Vial of Alexa Fluor 647 conjugated antibody. Alexa Fluor 647 is optimally excited at 653 nm by the Red laser (633 or 640 nm) and has an emission maximum of 669 nm.



Alexa Fluor® 647

LASER (nm)	FILTER
Red (633,640)	660/10
EXCITATION MAX (nm)	EMISSION MAX (nm)
653	669



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### **Products Related to NBP2-81104AF647**

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NBP2-52199-0.05mg	Recombinant Mouse CD40/TNFRSF5 His Protein
210-TA-005	TNF-alpha [Unconjugated]
DCCD40	CD40/TNFRSF5 [HRP]
M6000B-1	IL-6 [HRP]

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### **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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