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Anti-CD20 / MS4A1 Reference Antibody (rituximab)

Recombinant Antibody
Catalog # APR10038

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P11836
Reactivity	Cynomolgus, Human
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	33077

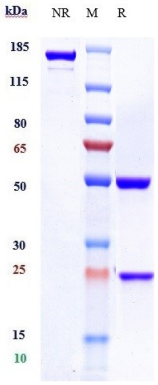
Additional Information

Target/Specificity	CD20 / MS4A1
Endotoxin	
Conjugation	Unconjugated
Expression system	CHO
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

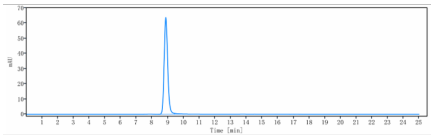
Protein Information

Name	MS4A1
Synonyms	CD20
Function	B-lymphocyte-specific membrane protein that plays a role in the regulation of cellular calcium influx necessary for the development, differentiation, and activation of B-lymphocytes (PubMed:12920111, PubMed:3925015, PubMed:7684739). Functions as a store-operated calcium (SOC) channel component promoting calcium influx after activation by the B-cell receptor/BCR (PubMed:12920111, PubMed:18474602, PubMed:7684739).
Cellular Location	Cell membrane; Multi-pass membrane protein. Cell membrane; Lipid-anchor. Note=Constitutively associated with membrane rafts.
Tissue Location	Expressed on B-cells.

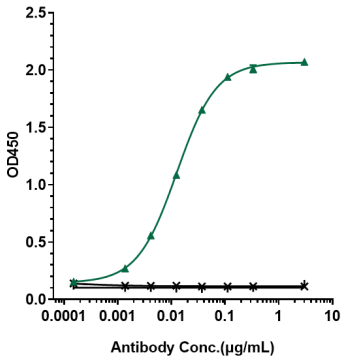
Images



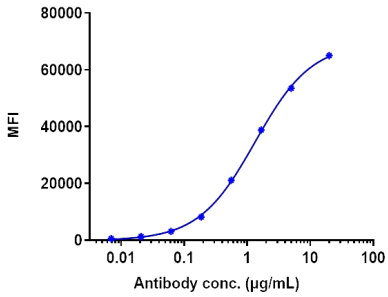
Anti-CD20 Reference Antibody (rituximab) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.



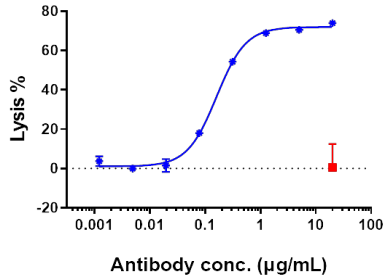
The purity of Anti-CD20 Reference Antibody (rituximab) is 98.97%, determined by SEC-HPLC.



Immobilized human CD20 His at 2 ug/mL can bind Anti-CD20 Reference Antibody (rituximab), EC50=0.01573/0.01258 ug/mL.

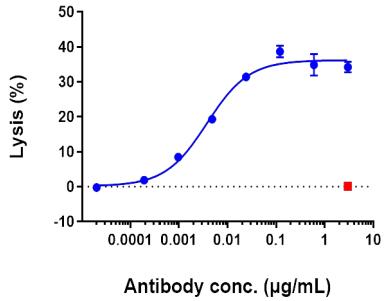


Raji cells were stained with Anti-CD20 Reference Antibody (rituximab) and negative control protein respectively, washed and then followed by PE and analyzed with FACS, EC50=1.334 ug/mL.



Anti-CD20 Reference Antibody (rituximab)-induced CDC activity was evaluated using Raji Cell. The max Lysis rate was approximately 74%.

Anti-CD20 Reference Antibody (rituximab) induced ADCC activity was evaluated using Raji Cell. The max Lysis rate was approximately 35%.



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