

HEK293 Expressed Full Length CD20 Protein

Biotinylated | SPR verified | Nanodisc CD20

CD20 is a hot target for the treatment of lymphoma, leukemia and some autoimmune diseases. However, due to low expression titer and the unstable bioactivity, it is so difficult to find an active CD20 protein on the market for antibody drug development and the CD20 CAR expression detection.

ACROBiosystems has developed the highly active full length multi-transmembrane CD20 proteins, expressed by HEK293 cells. The active full length CD20 proteins carry both big and small ECD loops, and bind Rituximab and Ofatumumab with high binding affinity in ELISA and SPR assay. We have different types of CD20 proteins include unconjugated protein, biotinylated proteins with DDM and Nanodisc, which are suitable for immunization, ELISA, SPR, BLI and FACS.

Product List



Molecule	Cat. No.	Species	Product Description
CD20/MS4A1	CD0-H82E5	Human	Biotinylated Human CD20 / MS4A1 Full Length Protein, His,Avitag™ (HEK293)
	CD0-H52H3	Human	Human CD20 / MS4A1 Full Length Protein, His Tag (HEK293) (SPR verified)
	CD0-H82E3	Human	Biotinylated Human CD20 / MS4A1 Full Length Protein, His,Avitag™ (Nanodisc) (HEK293)
	CD0-H52H1	Human	Human CD20 / MS4A1 Full Length Protein, His Tag (Nanodisc) (HEK293)
	CD0-C52H8	Cynomolgus	Cynomolgus CD20 / MS4A1 Full Length Protein, His Tag

Product Features

- Authentic conformation with both small and big loops
- Super bioactivity verified by ELISA/SPR/BLI/FACS
- Suitable for drug screening, characterization, quality control and CAR expression detection

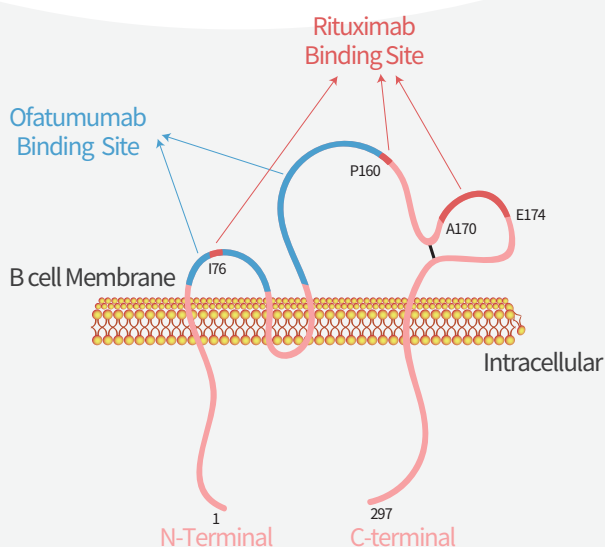
Common ECD CD20 protein (*E.coli* expression)

VS

ACROBiosystems full length CD20 protein (HEK293 & Insect cells expression)



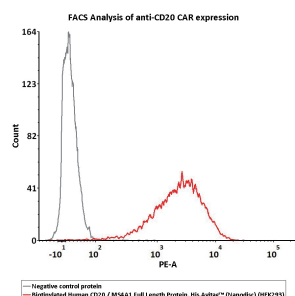
E (Extracellular)



Cat. No.: **CD0-H82E3**

Product: Biotinylated Human CD20 / MS4A1 Full Length Protein, His,Avitag™ (Nanodisc) (HEK293)

► Bioactivity-FACS

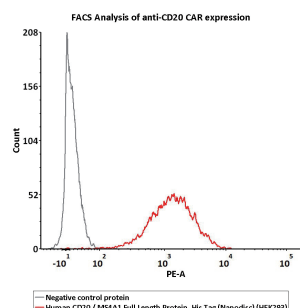


2e5 of CD20-CAR-293 cells transfected with anti-CD20-scFv were stained with 100 μ L of 3 μ g/mL of Biotinylated Human CD20 Full Length, His,Avitag (Cat. No. **CD0-H82E3**) and negative control antibody respectively, washed and then followed by PE-SA and analyzed with FACS.

Cat. No.: **CD0-H52H1**

Product: Human CD20 / MS4A1 Full Length Protein, His Tag (Nanodisc) (HEK293)

► Bioactivity-FACS

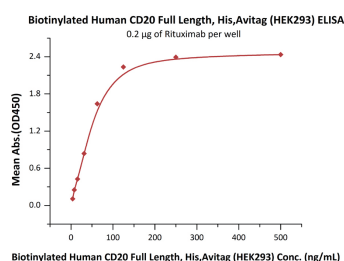


2e5 of CD20-CAR-293 cells transfected with anti-CD20-scFv were stained with 100 μ L of 3 μ g/mL of Human CD20 Full Length, His Tag (Cat. No. **CD0-H52H1**) and negative control antibody respectively, washed and then followed by PE anti-His antibody and analyzed with FACS.

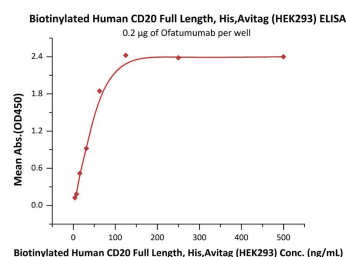
Cat. No.: **CD0-H82E5**

Product: Biotinylated Human CD20 / MS4A1 Full Length Protein, His,Avitag™ (HEK293)

► Bioactivity-ELISA

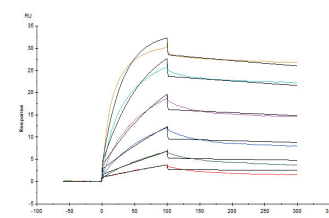


Immobilized Rituximab at 2 μ g/mL (100 μ L/well) can bind Biotinylated Human CD20 Full Length, His,Avitag (HEK293) (Cat. No. **CD0-H82E5**) with a linear range of 4-63 ng/mL (in presence of DDM and CHS).

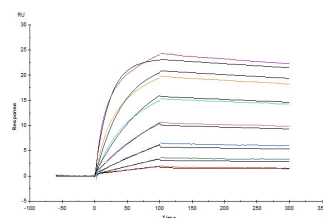


Immobilized Ofatumumab at 2 μ g/mL (100 μ L/well) can bind Biotinylated Human CD20 Full Length, His,Avitag (HEK293) (Cat. No. **CD0-H82E5**) with a linear range of 4-63 ng/mL (in presence of DDM and CHS).

► Bioactivity-SPR



Biotinylated Human CD20, His,Avitag (HEK293) (Cat. No. **CD0-H82E5**) captured on Biotin CAP-Series S Sensor Chip can bind Rituximab with an affinity constant of 1.73 nM as determined in a SPR assay (in presence of DDM and CHS) (Biacore T200).

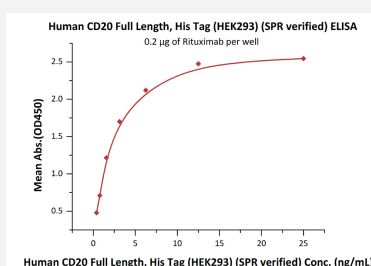


Biotinylated Human CD20, His,Avitag (HEK293) (Cat. No. **CD0-H82E5**) captured on Biotin CAP-Series S Sensor Chip can bind Ofatumumab (Human IgG1) with an affinity constant of 1.03 nM as determined in a SPR assay (in presence of DDM and CHS) (Biacore T200).

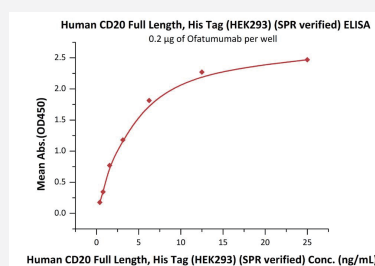
Cat. No.: **CD0-H52H3**

Product: Human CD20 / MS4A1 Full Length Protein, His Tag (HEK293) (SPR verified)

► Bioactivity-ELISA



Immobilized Rituximab at 2 μ g/mL (100 μ L/well) can bind Human CD20 Full Length, His Tag, HEK293 (SPR verified) (Cat. No. **CD0-H52H3**) with a linear range of 0.4-6 ng/mL (in presence of DDM and CHS).



Immobilized Ofatumumab at 2 μ g/mL (100 μ L/well) can bind Human CD20 Full Length, His Tag, HEK293 (SPR verified) (Cat. No. **CD0-H52H3**) with a linear range of 0.4-6 ng/mL (in presence of DDM and CHS).

*To download the protocol of the assay and learn more, please visit www.acrobiosystems.com.