

Product Datasheet

CCR5 Antibody NB100-531

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB100-531

CCR5 Antibody

Product Information	
Unit Size	0.1 ml
Concentration	0.5 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Purity	Immunogen affinity purified
Buffer	PBS

Product Description	
Host	Rabbit
Gene ID	1234
Gene Symbol	CCR5
Species	Human, Primate
Reactivity Notes	Rhesus Monkey.
Specificity/Sensitivity	This antibody is specific for the linear epitope detected by the monoclonal antibody 2D7.
Immunogen	A synthetic peptide demonstrating a high affinity towards the monoclonal CCR5 2D7. This peptide is known as the 2D7-2SK peptide and consists of the following residues: EWQKEGLVTLWLGGGGSC.

Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Functional, Immunocytochemistry/ Immunofluorescence, In vitro assay
Recommended Dilutions	Western Blot 1.0 ug/ml, Flow Cytometry 25 ug/ml, ELISA 1 ug/ml, Immunocytochemistry/ Immunofluorescence 1:100, Functional, In vitro assay
Application Notes	This CCR5 antibody may be used for Western blot, ELISA, Immunocytochemistry/Immunofluorescence and Flow Cytometry, as well as being useful for inhibition of CCR5 tropic HIV envelope mediated fusion, syncytia formation, and infection in various in vitro assays.

Publications

Khurana S et al. Identification of a linear peptide recognized by monoclonal antibody 2D7 capable of generating CCR5-specific antibodies with human immunodeficiency virus-neutralizing activity. *J Virol*;79(11):6791-800. 2005-06-01 [PMID: 15890918] (FLOW, Human)



Procedures

Flow Cytometry protocol specific for CCR5 Antibody (NB100-531)

Flow Cytometry

1. CEM.NKR.CCR5 cells were stained with 25 ug/ml anti-CCR5 (NB 100-531) or with preimmune rabbit IgG for 60 minutes on ice.
2. This was followed by extensive washing and staining with a FITC-conjugated goat anti-rabbit secondary antibody.
3. Flow cytometry was performed and analyzed with Cell Quest Software on FACSCalibur (BD Biosciences).

Western blot protocol specific for CCR5 Antibody (NB100-531)

Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 40 ug of total protein per lane.
 2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
 3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
 4. Rinse the blot.
 5. Block the membrane using standard blocking buffer for at least 1 hour.
 6. Wash the membrane in wash buffer three times for 10 minutes each.
 7. Dilute primary antibody in blocking buffer and incubate 1 hour at room temperature.
 8. Wash the membrane in wash buffer three times for 10 minutes each.
 9. Apply the diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
 10. Wash the blot in wash buffer three times for 10 minutes each (this step can be repeated as required to reduce background).
 11. Apply the detection reagent of choice in accordance with the manufacturers instructions.
- Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.





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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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