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Datasheet for 600-401-P54

CXCR2 Antibody

Overview

Description:	Anti-CXCR2 (RABBIT) Antibody - 600-401-P54
Item No.:	600-401-P54
Size:	100 µg
Applications:	WB
Reactivity:	Human, Rat
Host Species:	Rabbit

Product Details

Background:	CXCR2 is a receptor for Interleukin 8, which is a powerful neutrophil chemotactic factor. It is a member of the GPCR family (subfamily, chemokine). Binding of IL8 to the receptor causes activation of neutrophils. This response is mediated via a G-protein that activate a phosphatidylinositol-calcium second messenger system. This receptor binds to IL8 with a high affinity and to GRO/MGSA and NAP2 also with a high affinity. It has been reported to be expressed in a wide variety of tissues. ESTs have been isolated from human placenta and thymus libraries. This antibody is suitable for researchers interested in cell signaling research.
Synonyms:	CDw128b,GRO/MGSA receptor,High affinity interleukin-8 receptor B,
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CXCR2
Reactivity:	Human, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	CXCR2 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region of human CXCR2.

Purity/Specificity:	Anti-CXCR2 antibody is directed against human CXCR2 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with this protein from human and mouse based on homology for the immunogen sequence. Cross reactivity with CXCR2 from other sources has not been determined.
Relevant Links:	• UniProtKB - P25025 • GeneID - 3579 • NCBI - NP_001161770.1

Application Details

Tested Applications:	WB
Application Note:	Anti-CXCR2 is tested for Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~40.8 kDa corresponding to the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	0.5µg/mL

Formulation

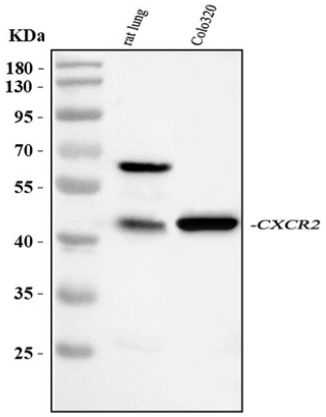
Physical State:	Lyophilized
Concentration:	0.5 mg/mL by UV absorbance at 280 nm
Buffer:	0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3
Preservative:	0.05mg Thimerosal
Stabilizer:	5mg BSA
Reconstitution Volume:	100 µL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient

Storage Condition:	Store vial at 4° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western blot analysis of CXCR2 using anti-CXCR2 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours.
The sample well of each lane was loaded with 30µg of sample under reducing conditions.
Lane 1: rat lung tissue lysates, Lane 2: human COLO320 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT.
The membrane was incubated with affinity purified rabbit anti-CXCR2 antigen polyclonal antibody at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CXCR2 at approximately 45 kDa. The expected band size for CXCR2 is at 41 kDa.

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