abcam

ab89254

Anti-CXCR2/CD182 antibody [MM0222-7J40]

Key facts

Isotype	IgG2a
Host species	Mouse
Storage buffer	Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Full Length Protein corresponding to Human CXCR2. Database link P25025
Carrier free	Yes
Clone number	MM0222-7J40
Purification technique	Affinity purification Protein G
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	The IgG fraction of culture supernatant was purified by Protein G affinity chromatography.

Reactivity data

Flow Cyt

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.

Notes	-

WB

Tested

Species	Human
Dilution info	1/500 - 1/1000
Notes	-

FuncS (Neut/Block)

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information CXCR2/CD182

Function Receptor for interleukin-8 which is a powerful neutrophil chemotactic factor (PubMed:1891716). Binding of IL-8 to the receptor causes activation of neutrophils. This response is mediated via a G-protein that activates a phosphatidylinositol-calcium second messenger system (PubMed:8662698). Binds to IL-8 with high affinity. Also binds with high affinity to CXCL3, GRO/MGSA and NAP-2 (PubMed:1891716). Involved in the homeostatic wound healing response to tissue injury, a multistep cascade that guides neutrophil migration to necrotic sites while avoiding collateral damage of healthy tissues. Signals intravascular neutrophil chemotaxis to the injury site.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C

Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	CXCR2 also called C-X-C chemokine receptor type 2 is a G protein-coupled receptor with a mass of approximately 53 kDa. It primarily binds to chemokines like CXCL1 CXCL2 CXCL3 CXCL5 CXCL6 CXCL7 and CXCL8 (also known as IL-8). CXCR2 is expressed in a variety of cells but is found especially in neutrophils where it plays a role in mediating immune response. Additionally it shows expression in some epithelial and endothelial cells contributing to its specialized functions in various tissues.
Biological function summary	CXCR2 plays significant roles in mediating inflammatory responses and is part of the chemokine receptor family. It functions by promoting chemotaxis of neutrophils to sites of inflammation infection or injury. This receptor operates with other chemokine receptors in the recruitment and migration of different immune cells helping coordinate an effective immune response. CXCR2 does not function alone and often interacts with other cell surface receptors and signaling molecules during immune responses.
Pathways	CXCR2 contributes prominently to the chemokine signaling pathway and the inflammatory response pathway. It interacts closely with proteins like CXCR1 another chemokine receptor to perform its functions. These interactions can activate downstream signaling cascades involving MAPK and PI3K pathways which are important for various cellular responses like proliferation survival and migration.
Associated diseases and disorders	CXCR2 has associations with inflammatory diseases such as chronic obstructive pulmonary disease (COPD) and rheumatoid arthritis. In these conditions excessive activation or expression of CXCR2 can lead to pathological inflammation. CXCR2 coordinates with proteins like IL-8 contributing to the chemotaxis of inflammatory cells in affected tissues and this coordination often exacerbates the inflammatory process in these diseases.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

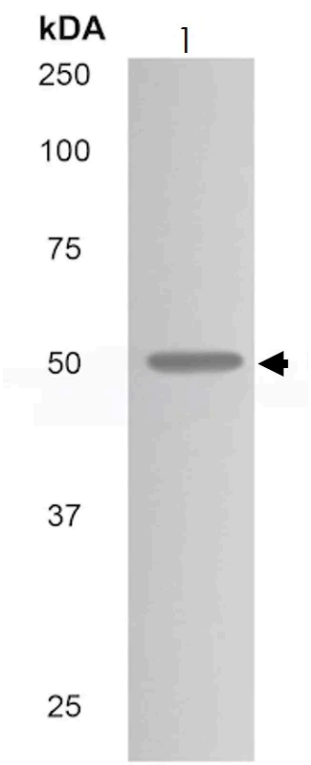
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

1 product image



Western blot - Anti-CXCR2/CD182 antibody [MM0222-7J40] (ab89254)

CXCR2/CD182 Western blot staining of Human placenta tissue lysate using mouse Anti-CXCR2/CD182 antibody

All lanes:
Western blot - Anti-CXCR2/CD182 antibody [MM0222-7J40] (ab89254) at 1/500 dilution

All lanes:
Human placenta tissue lysate

Predicted band size: 40 kDa

Observed band size: 50 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.