

Store at
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#97680**CXCR4 (D4Z7W) Rabbit mAb**

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IHC-P	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P61073	Entrez-Gene Id: 7852
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Product Usage Information**Application**

Immunohistochemistry (Paraffin)

Dilution

1:800

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier-free (BSA and azide free) version of this product see product #90927.

Specificity/Sensitivity

CXCR4 (D4Z7W) Rabbit mAb recognizes endogenous levels of total CXCR4 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the extracellular domains of human CXCR4 protein.

Background

CXCR4 is a chemokine receptor that belongs to the G protein-coupled receptor family. It is activated by a small cytokine, CXCL12, also known as stromal cell derived factor 1 (SDF1) (1). The main function of CXCR4 is the mediation of the homing of progenitor cells in the bone marrow and their recruitment to sites of injury (2). More recently, CXCR4 has been studied as a potential therapeutic target in the context of autoimmune diseases (3), as well as cancer, as the receptor is involved in the regulation of migration, proliferation, and survival of cancer cells (4).

Background References

1. Blanchet, X. et al. (2012) *Front Immunol* 3, 175.
2. Döring, Y. et al. (2014) *Front Physiol* 5, 212.
3. Debnath, B. et al. (2013) *Theranostics* 3, 47-75.
4. Teicher, B.A. and Fricker, S.P. (2010) *Clin Cancer Res* 16, 2927-31.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IHC-P: Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human

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