

SDF1/CXCL12 (D8G6H) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IHC-P	H	Endogenous	10	Rabbit IgG	#P48061	6387

Product Usage Information**Application**

Immunohistochemistry (Paraffin)

Dilution

1:200

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 #89194.

Specificity/Sensitivity

SDF1/CXCL12 (D8G6H) Rabbit mAb recognizes endogenous levels of total SDF1/CXCL12 protein by immunohistochemistry on paraffin-embedded tissue sections. This antibody recognizes both SDF1/CXCL12 α and SDF1/CXCL12 β .

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to human SDF1/CXCL12 protein.

Background

The stromal cell derived factor 1 (SDF1/CXCL12) is a small, pro-inflammatory chemoattractant cytokine that regulates leukocyte trafficking through interactions with its cognate 7-transmembrane G protein-coupled receptors (1). The SDF1/CXCL12 receptor, CXCR4, also serves as a coreceptor for the entry of human immunodeficiency virus into target cells (2). SDF1/CXCL12 may regulate homing and maintenance of CXCR4-expressing stem or progenitor cells, including embryonic and many somatic stem cells (3,4). Many cancer cells express CXCR4, suggesting that SDF1/CXCL12 plays a role in cancer metastasis (5,6). Alternative splicing and differential processing during maturation produce a pair of SDF1/CXCL12 isoforms (SDF1/CXCL12 α and SDF1/CXCL12 β) that have different properties and biological activities (7). Additional isoforms of SDF1/CXCL12 have been reported (8,9).

Background References

1. Maekawa, T. and Ishii, T. (2000) *Intern Med* 39, 90-100.
2. Ray, N. and Doms, R.W. (2006) *Curr Top Microbiol Immunol* 303, 97-120.
3. Sugiyama, T. et al. (2006) *Immunity* 25, 977-88.
4. Ara, T. et al. (2003) *Immunity* 19, 257-67.
5. Kucia, M. et al. (2004) *J Mol Histol* 35, 233-45.
6. Ratajczak, M.Z. et al. (2006) *Leukemia* 20, 1915-24.
7. De La Luz Sierra, M. et al. (2004) *Blood* 103, 2452-9.
8. Gleichmann, M. et al. (2000) *Eur J Neurosci* 12, 1857-66.
9. Yu, L. et al. (2006) *Gene* 374, 174-9.

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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