

#97958 Store at -20°C

SDF1/CXCL12 (D8G6H) Rabbit mAb



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

| Applications: IHC-P | Reactivity: H | Sensitivity: Endogenous | MW (kDa): 10 | Source/Isotype: Rabbit IgG | UniProt ID: #P48061 | Entrez-Gene Id: 6387 |
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| 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. | |
| Specificity / Sensitivity | For a carrier free (BSA and azide free) version of this product see product #89194. 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/CXCL12α and SDF1/CXCL12β. | |
| 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/CXCL12α and SDF1/CXCL12β) that have different properties and biological activities (7). Additional isoforms of SDF1/CXCL12 have been reported (8,9). | |
| Background References | <ol style="list-style-type: none"> 1. Maekawa, T. and Ishii, T. (2000) <i>Intern Med</i> 39, 90-100. 2. Ray, N. and Doms, R.W. (2006) <i>Curr Top Microbiol Immunol</i> 303, 97-120. 3. Sugiyama, T. et al. (2006) <i>Immunity</i> 25, 977-88. 4. Ara, T. et al. (2003) <i>Immunity</i> 19, 257-67. 5. Kucia, M. et al. (2004) <i>J Mol Histol</i> 35, 233-45. 6. Ratajczak, M.Z. et al. (2006) <i>Leukemia</i> 20, 1915-24. 7. De La Luz Sierra, M. et al. (2004) <i>Blood</i> 103, 2452-9. 8. Gleichmann, M. et al. (2000) <i>Eur J Neurosci</i> 12, 1857-66. 9. Yu, L. et al. (2006) <i>Gene</i> 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 M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected | |
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