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# Immunotag™ SDF-1 Polyclonal Antibody

## Antibody Specification

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| Catalog No. | ITT5966 |
| Product Description | Immunotag™ SDF-1 Polyclonal Antibody |
| Size | 50 µg, 100 µg |
| Conjugation | HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647 |
| IMPORTANT NOTE | This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return. |
| Target Protein | SDF-1 |
| Clonality | Polyclonal |
| Storage/Stability | -20°C/1 year |
| Application | IHC-p,ELISA |
| Recommended Dilution | IHC-p 1:50-200, ELISA 1:10000-20000 |
| Concentration | 1 mg/ml |
| Reactive Species | Human,Mouse,Rat |
| Host Species | Rabbit |
| Immunogen | Synthetic peptide from human protein at AA range: 31-80 |
| Specificity | The antibody detects endogenous SDF-1 |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen |
| Form | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Gene Name | CXCL12 SDF1 SDF1A SDF1B |
| Accession No. | P48061 P40224 |
| Alternate Names | Stromal cell-derived factor 1 (SDF-1) (hSDF-1) (C-X-C motif chemokine 12) (Intercrine reduced in hepatomas) (IRH) (hIRH) (Pre-B cell growth-stimulating factor) (PBSF) [Cleaved into: SDF-1-beta(3-72); SDF-1-alpha(3-67)] |

## Antibody Specification

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| Description | C-X-C motif chemokine ligand 12(CXCL12) Homo sapiens This antimicrobial gene encodes a stromal cell-derived alpha chemokine member of the intercrine family. The encoded protein functions as the ligand for the G-protein coupled receptor, chemokine (C-X-C motif) receptor 4, and plays a role in many diverse cellular functions, including embryogenesis, immune surveillance, inflammation response, tissue homeostasis, and tumor growth and metastasis. Mutations in this gene are associated with resistance to human immunodeficiency virus type 1 infections. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2014], |
| Cell Pathway/ Category | Cytokine-cytokine receptor interaction,Chemokine,Axon guidance,Leukocyte transendothelial migration,Intestinal immune network for IgA production, |
| Protein Expression | Brain,Liver,Spleen,Thymus,Uterus, |
| Subcellular Localization | extracellular region,extracellular space,external side of plasma membrane,extracellular exosome, |
| Protein Function | function:Chemoattractant active on T-lymphocytes, monocytes, but not neutrophils. SDF-1-beta(3-72) and SDF-1-alpha(3-67) show a reduced chemotactic activity. Binding to cell surface proteoglycans seems to inhibit formation of SDF-1-alpha(3-67) and thus to preserve activity on local sites.,online information:SDF-1 entry,PTM:Processed forms SDF-1-beta(3-72) and SDF-1-alpha(3-67) are produced after secretion by proteolytic cleavage of isoforms Beta and Alpha, respectively. The N-terminal processing is probably achieved by DPP4. Isoform Alpha is first cleaved at the C-terminus to yield a SDF-1-alpha(1-67) intermediate before being processsed at the N-terminus. The C-terminal processing of isoform Alpha is reduced by binding to heparin and, probably, cell surface proteoglycans.,similarity:Belongs to the intercrine alpha (chemokine CxC) family., |
| Usage | For Research Use Only! Not for diagnostic or therapeutic procedures. |