

Human CXCL4/PF4 Alexa Fluor® 532-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 170106 Catalog Number: FAB795X

100 µg

| DESCRIPTION | | |
|--------------------|---|--|
| Species Reactivity | Human | |
| Specificity | Detects human CXCL4/PF4 in direct ELISAs and Western blots. In Western blots, this antibody does not cross-react with recombinant mouse CXCL4/PF4, recombinant human (rh) GROα, or rhGROβ. | |
| Source | Monoclonal Mouse IgG ₁ Clone # 170106 | |
| Purification | Protein A or G purified from hybridoma culture supernatant | |
| Immunogen | E. coli-derived recombinant human CXCL4/PF4 Glu32-Ser101 Accession # P02776.2 | |
| Conjugate | Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm | |
| Formulation | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide | |
| | *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. | |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

| PREPARA' | TION AND | STORAGE |
|----------|----------|---------|
| | | |

| Shipping | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
|---------------------|---|
| Stability & Storage | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied |

BACKGROUND

CXCL4, also known as Platelet Factor 4, is a member of the CXC chemokine family, CXCL4. Human CXCL4 is a 101 amino acid (aa) protein with a 32 aa signal sequence and a 70 aa mature protein. CXCL4 has homology with IL-8 and β-thromboglobulin. Human and mouse CXCL4 share a 64% identity. CXCL4 contains several heparin-binding sites at the C-terminal region. The active protein consists of a tetramer composed of individual CXCL4 subunits. Megakaryocytes synthesize CXCL4 and store it as tetramers in α-granules. The CXCL4 tetramers are secreted by activated platelets and can be measured at micromolar levels in serum. In contrast to other CXC chemokines, CXCL4 lacks chemotactic activity for polymorphonuclear granulocytes. CXCL4 does not contain an ELR motif. However, many other functions have been observed for CXCL4. CXCL4 is involved in monocyte survivial and differentiation into macrophages, and it has anti-angiogenic activity. CXCL4 has been demonstrated to inhibit the binding of FGF-2 to high-affinity receptors and its subsequent internalization. Cell surface neutrophil chondroitin sulfate chains serve as CXCL4 binding sites; affinity is controlled by the degree of sulfation of these chains.

PRODUCT SPECIFIC NOTICES

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