

## Mouse CXCL4/PF4 Alexa Fluor® 350-conjugated Antibody

Monoclonal Rat IgG<sub>2B</sub> Clone # 140910 Catalog Number: FAB595U

100 µg

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse CXCL4/PF4 in ELISAs and Western blots. In ELISAs, this antibody does not cross-react or interfere recombinant human (rh) CXCL/PF4, recombinant mouse (rm) CXCL9/MIG, rmGM-CSF, rmCXCL1/I/I-TAC, rhCXCL8/IL-8, rmIL-5, or rhCXCL10/IP-10. In Wester
Source	Monoclonal Rat IgG <sub>2B</sub> Clone # 140910
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant mouse CXCL4/PF4 Val30-Ser105 Accession # Q9Z126
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 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 Shee (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.				
ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.			
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.			
Western Blot	Optimal dilution of this antibody should be experimentally determined.			

PREPARATION 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 is a member of the CXC chemokine family. Mouse CXCL4 is a 105 amino acid (aa) protein with a 29 aa signal sequence and a 76 aa mature protein. CXCL4 has homology with IL-8 and β-thromboglobulin. Mouse and human CXCL4 share a 64% identity. Mouse and rat CXCL4 share 89% 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 fuctions 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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