# **Mouse CXCL9/MIG Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF-492-NA

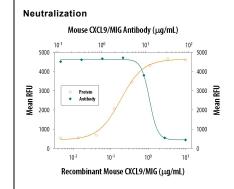
DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects mouse CXCL9/MIG in ELISAs and Western blots. In sandwich immunoassays, less than 0.5% cross-reactivity with recombinant human (rh) CXCL9/MIG is observed and less than 0.005% cross-reactivity with recombinant mouse MIP-2, recombinant rat CINC-1, rhGROα, rhGROβ, and rhGROγ is observed.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	E. coli-derived recombinant mouse CXCL9/MIG (R&D Systems, Catalog # 492-MM) Accession # P18340	
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.	

### **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.

	Recommended Concentration	Sample
Western Blot	0.1 μg/mL	Recombinant Mouse CXCL9/MIG (Catalog # 492-MM)
Mouse CXCL9/MIG Sandwich Immunoassay		Reagent
ELISA Capture	0.2-0.8 μg/mL	Mouse CXCL9/MIG Antibody (Catalog # AF-492-NA)
ELISA Detection	0.1-0.4 μg/mL	Mouse CXCL9/MIG Biotinylated Antibody (Catalog # BAF492)
Standard		Recombinant Mouse CXCL9/MIG (Catalog # 492-MM)
Neutralization	, ,	v to neutralize CXCL9/MIG-induced chemotaxis in the BaF3 mouse pro-B cell line transfected the Neutralization Dose (ND <sub>50</sub> ) is typically 6-20 μg/mL in the presence of 1 μg/mL CXCL9/MIG.

### DATA



Chemotaxis Induced by CXCL9/MIG and **Neutralization by Mouse** CXCL9/MIG Antibody. Recombinant Mouse CXCL9/MIG (Catalog # 492-MM) chemoattracts the BaF3 mouse pro-B cell line transfected with mouse CXCR3 in a dosedependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # AR002). Chemotaxis elicited by Recombinant Mouse CXCL9/MIG  $(1 \mu g/mL)$  is neutralized (green line) by increasing concentrations of Mouse CXCL9/MIG Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-492-NA). The  $ND_{50}$  is typically 6-20  $\mu$ g/mL

## PREPARATION AND STORAGE

Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.		
	*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.		
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.		

y & Storage Use a manual derrost freezer and avoid repeated freeze-thaw

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

KSTEMS\*



# **Mouse CXCL9/MIG Antibody**

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF-492-NA

#### BACKGROUND

CXCL9, also known as MIG, is a member of the α subfamily of chemokines that lacks the ELR domain, and was initially identified as a lymphokine-activated gene in mouse macrophages. Human CXCL9 was subsequently cloned using mouse CXCL9 cDNA as a probe. The CXCL9 gene is induced in macrophages and in primary glial cells of the central nervous system specifically in response to IFN-y. CXCL9 has been shown to be a chemoattractant for activated T-lymphocytes and TIL but not for neutrophils or monocytes. The mouse CXCL9 cDNA encodes a 126 amino acid residue precursor protein with a 21 amino acid residue signal peptide that is cleaved to yield a 105 amino acid residue mature protein. CXCL9 has an extended carboxy-terminus containing greater than 50% basic amino acid residues and is larger than most other chemokines. The carboxy-terminal residues of CXCL9 are prone to proteolytic cleavage resulting in size heterogeneity of natural and recombinant CXCL9. CXCL9 with large carboxy-terminal deletions have been shown to have diminished activity in the calcium flux assay. A chemokine receptor (CXCR3) specific for CXCL9 and IP-10 has been cloned and shown to be highly expressed in IL-2-activated T-lymphocytes.

Rev. 3/13/2015 Page 2 of 2

