

Cxcl2

Mouse CXCL2/MIP-2 ELISA Kit

Catalog No.	CKM059	Quantity:	1 Plate
Alternate Names:	SCYB2, GRO2, GROb, MIP-2a, MGSA-b, CINC-2a		
Description:	<p>Chemokine (C-X-C motif) Ligand 2 (CXCL2), also known as Macrophage Inflammatory Protein 2 (MIP-2), is a basic protein of approximately 6 kDa. CXCL2 is extremely chemotactic for segmented neutrophilic granulocytes and also synergizes with GM-CSF and M-CSF. It also induces the de-granulation of Human neutrophils, but it does not enhance oxidative metabolism. Mouse CXCL2 exhibits potent neutrophil chemotactic activity and may be a key mediator of neutrophil recruitment in response to tissue injury and infection. CXCL2 is 90% identical in amino acid sequence as a related chemokine, CXCL1. CXCL2 is secreted by monocytes and macrophages and is chemotactic for polymorphonuclear leukocytes and hematopoietic stem cells.</p> <p>The Mouse CXCL2/MIP-2 ELISA is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Mouse CXCL2/MIP-2 in serum, plasma, and cell culture supernatants. This assay employs an antibody specific for CXCL2/MIP-2 coated on a 96-well plate. Standards and samples are pipetted into the wells and CXCL2/MIP-2 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and Biotinylated Anti-Mouse CXCL2/MIP-2 antibody is added. After washing away unbound Biotinylated antibody, HRP-Streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of CXCL2/MIP-2 bound.</p>		
Sensitivity:	The minimum detectable dose of CXCL2/MIP2 is typically less than 10 pg/mL.		
Reproducibility:	Intra-Assay: CV<10%; Inter-Assay: CV<12%		
Samples:	Serum, plasma, and cell culture supernatants.		
Recovery:	Serum mean recovery of 95% (range 82-103%) Plasma mean recovery of 93% (range 80-102%) Cell culture media mean recovery of 98% (range 87-108%)		
Reagents Included:	<ol style="list-style-type: none"> 1. Microplate 96-wells coated with Capture Antibody 2. Wash Buffer Concentrate (20x) 3. Standards 4. Assay Diluent A: Standard/Sample-Serum/Plasma 5. Assay Diluent B: Standard/Sample-Cell Culture Medium 6. Biotinylated Detection Antibody 7. HRP-Streptavidin Concentrate 8. TMB One-Step Substrate Reagent 9. Stop Solution 		
Storage & Stability:	May be stored for up to 6 months at 2-8°C from the date of shipment. Standard should be stored below -20°C (-80°C recommended) after reconstitution. Opened Microplate Wells and reagents may be store for up to 1 month at 2-8°C. Return unused wells to the pouch containing desiccant pack, reseal along entire edge of zip seal.		

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