

Mouse IL-1ra/IL-1F3 Antibody

Monoclonal Rat IgG₁ Clone # 962802 Catalog Number: MAB4802

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse IL-1ra/IL-1F3 in direct ELISAs.
Source	Monoclonal Rat IgG ₁ Clone # 962802
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	E. coli-derived recombinant mouse IL-1ra/IL-1F3 Arg27-Gln178 Accession # P258085
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.

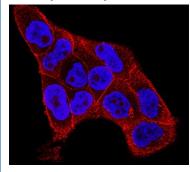
APPLICATIONS

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.

Concen	ration	
Immunocytochemistry 3-25 μg/n	nL See Below	

DATA

Immunocytochemistry



IL-1ra/IL-1F3 in A431 Human Cell Line. IL-1ra/IL-1F3 was detected in immersion fixed A431 human epithelial carcinoma cell line using Rat Anti-Mouse IL-1ra/IL-1F3 Monoclonal Antibody (Catalog # MAB4802) at 3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights ™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	
	 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.	

BACKGROUND

IL-1ra was originally isolated from the urine of patients with monocytic leukemia and has also been purified from adherent monocytes. The naturally-occurring, fully glycosylated form has an apparent molecular weight of about 25 kDa. The protein shows 26% amino acid homology to IL-1β and 19% homology to IL-1α. It will compete with either factor for receptor binding, but does not interact with either one. Human IL-1ra will bind to both types of IL-1 receptor (I and II) on human cells. In mouse, IL-1 RII does not bind IL-1ra. The recombinant, non-glycosylated form of IL-1ra blocks binding of IL-1 to its receptor equally as well as the naturally-occurring, glycosylated form. The IL-1ra has been shown to block the inflammatory responses induced by IL-1 both *in vitro* and *in vivo*. Pre-clinical and clinical studies were done to test possible therapeutic applications for IL-1ra in the treatment of sepsis, rheumatoid arthritis and chronic myelogenous leukemia.

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