

Human IL-1ra/IL-1F3 Antibody

Monoclonal Mouse IgG_{2A} Clone # 10309 Catalog Number: MAB280

DESCRIPTION

Species Reactivity	Human		
Specificity	Detects human IL-1ra/IL-1F3 in ELISAs. In ELISAs, this antibody shows less than 0.2% cross-reactivity with recombinant mouse (rm) IL-1ra and no cross-reactivity with rhIL-1α, rpIL-1α, rrlL-1α, rhIL-1β, rpIL-1β, rrlIL-1β, rrlIL-1β, rrlIL-1 RI, or rhIL-1 RII.		
Source	Monoclonal Mouse IgG _{2A} Clone # 10309		
Purification	Protein A or G purified from ascites		
Immunogen	<i>E. coli</i> -derived recombinant human IL-1ra/IL-1F3 Arg26-Glu177 Accession # P18510		
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 either lyophilized or 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.				
Human IL-1ra/IL-1F3 Sandwich Immunoassay		Reagent		
ELISA Capture	2-8 µg/mL	Human IL-1ra/IL-1F3 Antibody (Catalog # MAB280)		
ELISA Detection	0.1-0.4 µg/mL	Human IL-1ra/IL-1F3 Biotinylated Antibody (Catalog # BAF280)		
Standard		Recombinant Human IL-1ra/IL-1F3 (Catalog # 280-RA)		
Neutralization	Measured by its abil mouse helper T cell Clemens, M.J. <i>et al.</i> of 50 ng/ml. Recom	ity to neutralize IL-1ra/IL-1F3 inhibition of IL-1α/IL-1F1-dependent proliferation in the D10.G4.1 line. Symons, J.A. <i>et al.</i> (1987) in Lymphokines and Interferons, a Practical Approach. (eds): IRL Press. 272. The Neutralization Dose (ND ₅₀) is typically 10-20 μg/mL in the presence binant Human IL-1ra/IL-1F3. 50 ng/mL Recombinant Human IL-1ra/IL-1F1.		



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. 	

Rev. 4/9/2020 Page 1 of 2

Dietechne Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449



Human IL-1ra/IL-1F3 Antibody

Monoclonal Mouse IgG_{2A} Clone # 10309 Catalog Number: MAB280

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 25,000 Daltons. 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, but reportedly will not block binding to the type II receptor on murine pre-B cell lines. 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*. Currently, pre-clinical and clinical studies are underway to test possible therapeutic applications for IL-1ra in the treatment of sepsis, rheumatoid arthritis and chronic myelogenous leukemia.

Rev. 4/9/2020 Page 2 of 2



Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449