



Armenian Hamster Anti-Mouse IL-1 R (CD121a) Monoclonal antibody, clone JAMA-147 (CABT- L4500)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	The JAMA-147 monoclonal antibody reacts with mouse IL-1 receptor (IL-1 R) type 1 also known as CD121a. IL-1 R is an 80 kDa transmembrane glycoprotein and a member of the immunoglobulin superfamily. The receptor is expressed on T cells, thymocytes, dendritic cells, fibroblasts, vascular endothelial cells, epithelial cells and neural cells. IL-1 R type 1 can bind both IL-1 α and IL-1 β . Upon ligand binding the type I receptor mediates all the known IL-1 biological responses.
Target	Mouse IL-1 R (CD121a)
Immunogen	Extracellular domain of mouse IL-1 R type 1
Isotype	IgG, κ
Source/Host	Armenian Hamster
Species Reactivity	Mouse
Clone	JAMA-147
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vitro?IL-1 R blockade
Molecular Weight	150 kDa
Format	0.2 μ M filtered liquid. Purified from tissue culture supernatant in an animal free facility

Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 6.0 0.01% Tween. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/μg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB03
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	Interleukin-1 receptor (IL-1R) is a cytokine receptor which binds interleukin 1. Two forms of the receptor exist. The type I receptor is primarily responsible for transmitting the inflammatory effects of interleukin-1 (IL-1) while type II receptors may act as a suppressor of IL-1 activity by competing for IL-1 binding.[1] Also opposing the effects of IL-1 is the IL-1 receptor antagonist (IL-1RA).
Keywords	Antigen CD121a;CD121 antigen-like family member A;CD121A;CD121a antigen;D2S1473;IL 1;IL 1R alpha;IL1 inhibitor;IL1R;IL1R1_HUMAN

GENE INFORMATION

Official Symbol	Interleukin-1 receptor
Synonyms	Antigen CD121a; CD121 antigen-like family member A; CD121A; CD121a antigen; D2S1473; IL 1; IL 1R alpha; IL1 inhibitor; IL1R; IL1R1_HUMAN
References	Ha, H. L., et al. (2014). "IL-17 drives psoriatic inflammation via distinct, target cell-specific mechanisms." Proc Natl Acad Sci U S A 111(33): E3422-3431. PubMed;