



# 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 $\alpha$  and IL-1 $\beta$ . Upon ligand binding the type I receptor mediates all the known IL-1 biological responses.

<b>Target</b>	Mouse IL-1 R (CD121a)
<b>Immunogen</b>	Extracellular domain of mouse IL-1 R type 1
<b>Isotype</b>	IgG, $\kappa$
<b>Source/Host</b>	Armenian Hamster
<b>Species Reactivity</b>	Mouse
<b>Clone</b>	JAMA-147
<b>Purification</b>	Protein G purified. Purity>95%. Determined by SDS-PAGE
<b>Conjugate</b>	Functional Grade
<b>Applications</b>	in vitro?IL-1 R blockade
<b>Molecular Weight</b>	150 kDa
<b>Format</b>	0.2 $\mu$ M filtered liquid. Purified from tissue culture supernatant in an animal free facility

<b>Concentration</b>	Lot specific
<b>Size</b>	5 mg
<b>Buffer</b>	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
<b>Preservative</b>	None
<b>Storage</b>	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
<b>Ship</b>	Wet ice

## BACKGROUND

<b>Introduction</b>	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).
<b>Keywords</b>	Antigen CD121a;CD121 antigen-like family member A;CD121A;CD121a antigen;D2S1473;IL 1;IL 1R alpha;IL1 inhibitor;IL1R;IL1R1_HUMAN

## GENE INFORMATION

<b>Official Symbol</b>	Interleukin-1 receptor
<b>Synonyms</b>	Antigen CD121a; CD121 antigen-like family member A; CD121A; CD121a antigen; D2S1473; IL 1; IL 1R alpha; IL1 inhibitor; IL1R; IL1R1_HUMAN
<b>References</b>	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;