



Rat Anti-Mouse IL-6R Monoclonal antibody, clone 15A7 (CABT-L4297)

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

PRODUCT INFORMATION

Product Overview

The 15A7 monoclonal antibody reacts with the mouse IL-6 receptor α chain also known as CD126. CD126 is an 80 kDa type I cytokine receptor and a member of the immunoglobulin superfamily. CD126 is expressed by activated T and B lymphocytes, monocytes, hepatocytes, and plasma cells. The IL-6 receptor α chain binds IL-6 but requires association with gp130 to initiate signal transduction. Upon IL-6 binding the IL-6R complex influences antigen-specific immune responses, inflammatory responses, neuronal development, and is a major mediator of the acute phase reaction. The 15A7 monoclonal antibody has been shown to block the binding of IL-6 to the IL-6 receptor.

Target	Mouse IL-6R
Immunogen	OKT-4 hybridoma cells
Isotype	IgG2b, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	15A7
Purification	Protein A High Salt purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vivo blocking of IL-6/IL-6R signaling, in vitro blocking of IL-6R signaling
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 7.0. 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-LB04
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	This is an antibody fragment consisting of a single monomeric variable antibody domain directed to IL6R. Nanobody, with a molecular weight of only 12–15 kDa, is able to bind selectively to a specific antigen like a whole antibody.
Keywords	IL6R;interleukin 6 receptor;interleukin-6 receptor subunit alpha;CD126;IL-6R 1;CD126 antigen;membrane glycoprotein 80;IL-6 receptor subunit alpha;gp80;IL6RA;IL-6RA;IL-6R-1;MGC104991

GENE INFORMATION

Official Symbol	interleukin 6 receptor
Synonyms	IL6R; interleukin 6 receptor; interleukin-6 receptor subunit alpha; CD126; IL-6R 1; CD126 antigen; membrane glycoprotein 80; IL-6 receptor subunit alpha; gp80; IL6RA; IL-6RA; IL-6R-1; MGC104991
References	Tsukamoto, H., et al. (2015). "IL-6-mediated environmental conditioning of defective Th1 differentiation dampens antitumour immune responses in old age." Nat Commun 6: 6702. PubMed;