



Mouse Anti-Mouse IL-27 p28 Monoclonal antibody, clone MM27.7B1 (CABT-L4550)

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

PRODUCT INFORMATION

Product Overview

The MM27.7B1 monoclonal antibody reacts with the p28 subunit of mouse IL-27, a member of the IL-6/IL-12 cytokine family. IL-27 is a heterodimeric cytokine composed the EBI3 (Epstein-Barr virus induced gene 3) protein and the p28 subunit, also known as IL-30. Myeloid cells including macrophages, inflammatory monocytes, microglia, and dendritic cells are the dominant cellular sources of IL-27. These cells secrete IL-27 in response to TLR ligands and inflammatory cytokines. IL-27 p28 signals through IL-27 receptors (IL-27R) which are highly expressed by NK cells and activated T cells and to a lesser extent on B cells, naïve T cells, and others. IL-27 signaling has been shown to have both pro-inflammatory and anti-inflammatory effects. Signaling through IL-27R promotes Th1 polarization and IFN γ production but also suppresses the differentiation and proliferation of Th2 and Th17 cells and induces the expression of IL-10. The MM27.7B1 clone has been shown to neutralize the bioactivity of mouse IL-27 in vivo and in vitro and reported to also bind and inhibit human IL-27.

Target	Mouse IL-27 p28
Immunogen	Mouse IL-27
Isotype	IgG2a, κ
Source/Host	Mouse
Species Reactivity	Mouse
Clone	MM27.7B1
Purification	Protein A purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade

Applications	in vivo IL-27 p28 neutralization, in vitro IL-27 p28 neutralization, FC
Molecular Weight	150 kDa
Format	0.2 µM 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	The protein encoded by this gene is one of the subunits of a heterodimeric cytokine complex. This protein is related to interleukin 12A (IL12A). It interacts with Epstein-Barr virus induced gene 3 (EBI3), a protein similar to interleukin 12B (IL12B), and forms a complex that has been shown to drive rapid expansion of naive but not memory CD4(+) T cells. The complex is also found to synergize strongly with interleukin 12 to trigger interferon gamma (IFNG) production of naive CD4(+) T cells. The biological effects of this cytokine are mediated by the class I cytokine receptor (WSX1/TCRR). [provided by RefSeq, Jul 2008]
Keywords	IL27;interleukin 27;p28;IL30;IL-27;IL27A;IL-27A;IL27p28;interleukin-27 subunit alpha;IL27-A;IL-27-A;interleukin 30;interleukin-30;IL-27 p28 subunit;IL-27 subunit alpha

GENE INFORMATION

Official Symbol	interleukin 27
Synonyms	IL27; interleukin 27; p28; IL30; IL-27; IL27A; IL-27A; IL27p28; interleukin-27 subunit alpha; IL27-A; IL-27-A; interleukin 30; interleukin-30; IL-27 p28 subunit; IL-27 subunit alpha
References	Ayasoufi, K., et al. (2019). "Interleukin-27 promotes CD8+ T cell reconstitution following antibody-mediated lymphoablation." JCI Insight 4(7).;