



Armenian Hamster Anti-Mouse IL-1 α Monoclonal antibody, clone ALF-161 (CABT-L4491)

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

PRODUCT INFORMATION

Product Overview

The ALF-161 monoclonal antibody reacts with precursor, secreted and membrane-associated forms of mouse IL-1 α (interleukin 1 alpha) also known as lymphocyte activating factor (LAF), and mononuclear cell factor (MCF). IL-1 α is a 17 kDa pro-inflammatory cytokine produced by a variety of cells, including macrophages, dendritic cells, T and B lymphocytes. IL-1 α exerts a wide range of immune and inflammatory responses on a many cell types including lymphocytes, epithelial cells and fibroblasts. IL-1 is made up of IL-1 α and IL-1 β which are the products of distinct genes, but which are recognized by two distinct IL-1 receptors. The IL-1 receptor type I, a 80 kDa transmembrane protein with demonstrated IL-1 signaling function and the IL-1 receptor type II, a 68 kDa membrane protein with a relatively short cytoplasmic tail. The type II receptor acts as a decoy target for IL-1, inhibiting IL-1 activities by preventing the binding of IL-1 to the type I receptor. The ALF-161 antibody has been shown to neutralize the bioactivity of natural or recombinant IL-1 α .

Target	Mouse IL-1 α
Immunogen	Recombinant mouse IL-1 α
Isotype	IgG
Source/Host	Armenian Hamster
Species Reactivity	Mouse
Clone	ALF-161
Purification	Protein A purified. Purity>95%. Determined by SDS-PAGE

Conjugate	Functional Grade
Applications	in vivo IL-1 α neutralization
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/ μ g). 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 a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimers disease. [provided by RefSeq, Jul 2008]

Keywords IL1A;interleukin 1, alpha;IL1;IL-1A;IL1F1;IL1-ALPHA;interleukin-1 alpha;IL-1 alpha;hematopoietin-1;preinterleukin 1 alpha;pro-interleukin-1-alpha;

GENE INFORMATION

Official Symbol	interleukin 1, alpha
Synonyms	IL1A; interleukin 1, alpha; IL1; IL-1A; IL1F1; IL1-ALPHA; interleukin-1 alpha; IL-1 alpha; hematopoietin-1; preinterleukin 1 alpha; pro-interleukin-1-alpha;