



Polyclonal Anti-human GM-CSF^{HuXp} Antibody

Specifications

Species	Rabbit
Source	Human cell
Pack Size	100 µg
IsoType	Total IgG
Storage	-20°C

Product Description

Rabbit polyclonal anti-human GM-CSF antibody was raised against recombinant human GM-CSF expressed in human cell (rhGM-CSF^{HuXp}). HumanZyme's human cell expression system has the advantage of tag-free expression and purification, correct folding, accurate tertiary and quaternary structure and authentic post-translational modifications such as glycosylation, phosphorylation, palmitoylation and disulfide bonds. These post-translational modifications are absent in non-human cell expression system and have important implications for cytokine stability, receptor interaction and in vivo efficacy. Total IgG was purified using Protein A affinity chromatography.

Formulation

Lyophilized from 0.2µm filtered solution in PBS.

Reconstitution

Reconstitute with sterile PBS or H₂O. The concentration of antibody will be 1 mg/mL when resuspended in 0.1 mL PBS or H₂O.

Limited Use and Restrictions

Unless otherwise stated in our catalog or other company documentation accompanying the product, products sold by HumanZyme Inc. are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, including resale or use in manufacture, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals. For a complete statement of this Limited Use License and its application to drug discovery and diagnostic research please visit www.humanzyme.com

Certificate of Analysis

Polyclonal Anti-human GM-CSF^{HuXp} Antibody

Cat #: HZ-5006

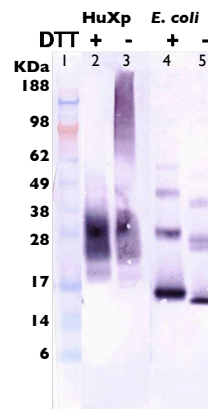
Lot #: 1112080003

Background

Granulocyte Monocyte Colony Stimulating Factor (GM-CSF) is produced by a number of different cell types, including activated T cells, B cells, macrophages, mast cells, endothelial cells, fibroblasts, monocytes, in response to immune and inflammatory stimuli. GM-CSF synergizes with G-CSF, EPO and M-CSF all of which are also available in human expressed form from Humanzyme. Together GM-CSF and G-CSF are required to develop neutrophilic colonies in vitro. GM-CSF synergises with EPO in the proliferation of erythroid and megakaryocytic progenitor cells. GM-CSF promotes myeloid differentiation and generates granulocytes (neutrophils, basophils, eosinophils) and macrophage colonies from stem cells. It stimulates myeloblasts and monoblasts and triggers irreversible differentiation of these cells. GM-CSF also enhances phagocytic capability of macrophages

Applications

Western Blot - This antibody can be used at 0.5 to 2 µg/mL with the appropriate secondary reagents to detect human GM-CSF. The detection limit for rhGM-CSF is approximately 20ng/lane under reducing and 50ng/lane non-reducing conditions.



The Western Blot shows 100ng of GM-CSF from two different expression systems: HuXpTM (lane 2,3) E.coli (lane 4,5). Antibody concentration is 1µg/mL.