

# GM-CSF Monoclonal Antibody (404CE 14G12)

Catalog NumberAHC2812

Product data sheet

Details		Species Reactivity	
Size	500 µg	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Tested Applications	
Class	Monoclonal	ELISA (ELISA)	Dilution * Assay-dependent
Type	Antibody	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Clone	404CE 14G12		
Immunogen	Purified recombinant human GM-CSF.		
Conjugate	Unconjugated		
Form	Liquid		
Concentration	1 mg/mL		
Purification	Protein A		
Storage buffer	PBS, pH 7.4		
Contains	0.5mg/mL sodium azide		
Storage Conditions	4° C		

## Product specific information

This antibody can be used as a capture antibody in ELISA applications. This clone can also be referred to as clone number 404CE 14G12 L1.

## Background/Target Information

The GM-CSF gene encodes for a cytokine that regulates the production, differentiation, and function of macrophages and granulocytes. The active form of the protein exists as a homodimer in the extracellular space. This gene is located in a cluster of related genes at the chromosome region 5q31, which has been associated with interstitial deletions in the 5q- syndrome and acute myelogenous leukemia. Other genes in the cluster include interleukins 4, 5, and 13. The gene is involved in promoting tissue inflammation. Elevated levels of cytokines, including the one produced by this gene, have been observed in SARS-CoV-2 infected patients with acute respiratory distress syndrome. Mice that lack this gene or its receptor have been shown to develop pulmonary alveolar proteinosis.

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