Leinco Technologies, Inc.
excellence in early discovery research™

Anti-α1-Antichymotrypsin [Clone 1AC10-118.2]

Monoclonal

Product Information

Product No.:	13802
Clone:	1AC10-118.2
Isotype:	Mouse Mouse IgG1

Product Description

Specificity:
These antibodies specifically recognize human serum alpha-1 antichymotrypsin. They do not cross-react with alpha-1-antitrypsin.

Background:
Alpha 1-antichymotrypsin (alpha1AC) is an alpha globulin glycoprotein produced in the liver that is a member of the serpin superfamily. In humans, it is encoded by the *SERPINA3* gene. alpha1AC inhibits the activity of proteases such as cathepsin G from neutrophils and chymases from mast cells by cleaving them into different conformations. This activity protects tissues, such as the lower respiratory tract, from damage caused by proteolytic enzymes. alpha1AC is an acute phase protein that is induced during inflammation. Deficiency of this protein has been associated with liver disease, and mutations have been identified in patients with Parkinson disease and chronic obstructive pulmonary disease. It is also associated with the pathogenesis of Alzheimer's disease as it enhances the formation of amyloid-fibrils.

Known Reactivity Species:
Human

Format:
Purified

Immunogen:
Purified human serum alpha-1-antichymotrypsin.

Formulation
This monoclonal antibody is formulated in phosphate buffered saline (PBS) pH 7.2 - 7.4 with no carrier protein or preservatives added.

Storage and Stability
This antibody is stable for at least one (1) year at -20°C to -70°C. **Store product in appropriate aliquots to avoid multiple freeze-thaw cycles.**

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

410 Axminister Dr, St. Louis, MO 63026 (800) 538-1145 leincoglobal@leinco.com

Product Preparation
Antibodies are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

Applications
Applications and Recommended Usage (Quality Tested By Leinco):

These antibodies have been qualified for use in ELISA to detect human a1AC.

End users should determine optimal concentrations for their applications.

Country of Origin
USA

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