

Product datasheet

Anti-alpha 1 Antichymotrypsin antibody [ACT14C7] ab15606

Overview

Product name	Anti-alpha 1 Antichymotrypsin antibody [ACT14C7]
Description	Mouse monoclonal [ACT14C7] to alpha 1 Antichymotrypsin
Host species	Mouse
Tested applications	Suitable for: IHC-P, IHC-Fr
Species reactivity	Reacts with: Human
Immunogen	Full length native protein (purified) (Human).
Positive control	Tonsil

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.1% (v/v) Kathon Constituents: 10mg/ml BSA
Purity	Protein G purified
Clonality	Monoclonal
Clone number	ACT14C7
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab15606** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Antigen retrieval can also be performed with enzymatic (proteinase K).

Application	Abreviews	Notes
IHC-Fr		Use a concentration of 2 µg/ml.

Target

Function	Although its physiological function is unclear, it can inhibit neutrophil cathepsin G and mast cell chymase, both of which can convert angiotensin-1 to the active angiotensin-2.
Tissue specificity	Plasma. Synthesized in the liver. Like the related alpha-1-antitrypsin, its concentration increases in the acute phase of inflammation or infection. Found in the amyloid plaques from the hippocampus of Alzheimer disease brains.
Involvement in disease	Defects in SERPINA3 may be a cause of chronic obstructive pulmonary disease (COPD) [MIM:107280].
Sequence similarities	Belongs to the serpin family.
Domain	The reactive center loop (RCL) extends out from the body of the protein and directs binding to the target protease. The protease cleaves the serpin at the reactive site within the RCL, establishing a covalent linkage between the carboxyl group of the serpin reactive site and the serine hydroxyl of the protease. The resulting inactive serpin-protease complex is highly stable.
Cellular localization	Secreted.

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