abcam

Product datasheet

Anti-SERPING1 antibody [KT28] ab53365

Overview

Product name	Anti-SERPING1 antibody [KT28]
Description	Mouse monoclonal [KT28] to SERPING1
Host species	Mouse
Tested applications	**Suitable for:** Indirect ELISA
Species reactivity	**Reacts with:** Human
Immunogen	Full length native protein (purified) corresponding to Human SERPING1.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at 4°C (stable for up to 12 months). Store at -20°C or -80°C.
Storage buffer	Preservative: 0.1% Sodium azide Constituent: PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	KT28
Isotype	IgG1

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab53365 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
Indirect ELISA		

Application notes

I-ELISA: Use at a concentration of 5 µg/ml as primary antibody.

Not yet tested in other applications.
Optimal dilutions/concentrations should be determined by the end user.

Target

Function

Activation of the C1 complex is under control of the C1-inhibitor. It forms a proteolytically inactive stoichiometric complex with the C1r or C1s proteases. May play a potentially crucial role in regulating important physiological pathways including complement activation, blood coagulation, fibrinolysis and the generation of kinins. Very efficient inhibitor of FXIIa. Inhibits chymotrypsin and kallikrein.

Involvement in disease

Defects in SERPING1 are the cause of hereditary angioedema (HAE) [MIM:106100]; also called hereditary angioneurotic edema (HANE). HAE is an autosomal dominant disorder characterized by episodic local subcutaneous edema and submucosal edema involving the upper respiratory and gastrointestinal tracts. HAE due to C1 esterase inhibitor deficiency is comprised of two clinically indistinguishable forms. In HAE type 1, representing 85% of patients, serum levels of C1 esterase inhibitor are less than 35% of normal. In HAE type 2, the levels are normal or elevated, but the protein is non-functional.

Sequence similarities

Belongs to the serpin family.

Post-translational modifications

Highly glycosylated (49%) with N- and O-glycosylation.
Can be proteolytically cleaved by E.coli stcE.

Cellular localization

Secreted.

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