

Product datasheet

Recombinant Human CATSPER3 protein ab166329

1 Image

Overview

Product name	Recombinant Human CATSPER3 protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Wheat germ
Amino Acid Sequence	
Species	Human
Sequence	QRQQEEISRLMHIQKNADCTSFSELVENFKKTLSTDP MVLDDFGTSLPF IDYFSTLDYQDTTVHKLQELYEMHVLSLMLEDLPQEK PQSLEKVDEK
Amino acids	299 to 398
Tags	proprietary tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab166329** in the following tested applications.

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

Applications	Western blot ELISA
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml.

Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
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General Info

Function

Voltage-gated calcium channel that plays a central role in calcium-dependent physiological responses essential for successful fertilization, such as sperm hyperactivation, acrosome reaction and chemotaxis towards the oocyte. Activated by extracellular progesterone and prostaglandins following the sequence: progesterone > PGF1-alpha = PGE1 > PGA1 > PGE2 >> PGD2. The primary effect of progesterone activation is to shift voltage dependence towards more physiological, negative membrane potentials; it is not mediated by metabotropic receptors and second messengers. Sperm capacitation enhances the effect of progesterone by providing additional negative shift. Also activated by the elevation of intracellular pH.

Tissue specificity

Testis-specific.

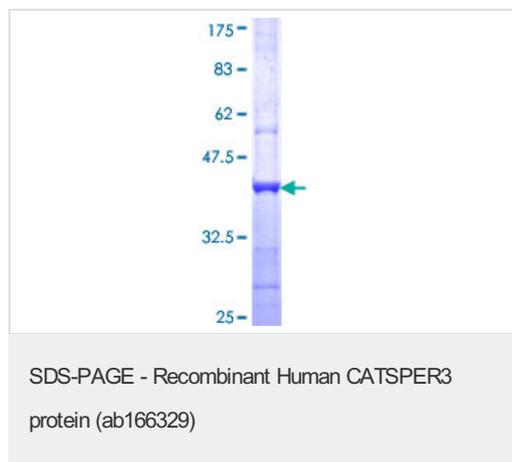
Sequence similarities

Belongs to the cation channel sperm-associated (TC 1.A.1.19) family.

Cellular localization

Cell projection > cilium > flagellum membrane. Specifically located in the principal piece of sperm tail.

Images



ab166329 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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