

Datasheet for ABIN6992154  
**anti-IZUMO1 antibody (AA 170-220)**



[Go to Product page](#)

## Overview

Quantity:	0.1 mg
Target:	IZUMO1
Binding Specificity:	AA 170-220
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IZUMO1 antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Immunogen:	IZUMO1 antibody was raised against an 18 amino acid peptide near the center of human IZUMO1. The immunogen is located within amino acids 170 - 220 of IZUMO1.
Isotype:	IgG
Specificity:	IZUMO1 antibody is human specific. At least four isoforms of IZUMO1 are known to exist, this antibody will detect the two longest isoforms.
Purification:	IZUMO1 antibody is affinity chromatography purified via peptide column.

## Target Details

Target:	IZUMO1
Alternative Name:	IZUMO1 ( <a href="#">IZUMO1 Products</a> )

## Target Details

Background:	IZUM01, a sperm-specific protein, is essential for sperm-egg plasma membrane binding and fusion. It is involved in the fertilization process and in the fusion of the sperm with the egg (1,2). IZUM01 is expressed as at least four isoforms produced by alternative splicing and contains one Ig-like (immunoglobulin-like) C2-type domain (3). Lack of IZUM01 in males, due to homozygous mutation in the gene that encodes IZUM01, results in sterility due to an inability to penetrate the plasma membrane of the egg (4).
Molecular Weight:	Predicted: 35, 39, 42 kDa  Observed: 52 kDa
Gene ID:	284359
NCBI Accession:	<a href="#">NP_872381</a>
UniProt:	<a href="#">Q8IYV9</a>

## Application Details

Application Notes:	IZUM01 antibody can be used for detection of IZUM01 by Western blot at 1 - 2 µg/mL.  Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL.  Antibody validated: Western Blot in human samples and Immunohistochemistry in human samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	IZUM01 antibody is supplied in PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C, 4 °C
Storage Comment:	IZUM01 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.