Rabbit anti-Human IZUMO1 Polyclonal Antibody | anti-IZUMO1 antibody

IZUMO1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA40830	**Rabbit**	**Human**	**Immunohistochemistry, Western Blot, ELISA**

PRODUCT SYNONYMS

IZUMO1; Polyclonal Antibody; IZUMO1 Antibody; Izumo sperm-egg fusion 1; IZUMO; Izumo sperm-egg fusion protein 1; Oocyte binding/fusion factor; OBF; Sperm-specific protein izumo; anti-IZUMO1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
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.
Purity/Purification	Affinity chromatography purified via peptide column.
Form/Format	Liquid
Concentration	1 mg/mL (varies by lot)
Sequence Length	350
Applicable Applications for anti-IZUMO1 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	IZUMO1 antibody was raised against an 18 amino acid peptide near the center of human IZUMO1
Buffer	Supplied in PBS containing 0.02% sodium azide.
Positive Control 1	Human Testis Tissue Lysate
Conjugate	Unconjugated
MW Explanation	Transmembrane protein, also multiple other IZUMO1 antibodies also show a ~52kD band
Preparation and Storage	Store at 4 degree C for three months and -20 degree C, stable for up to one year.

IMAGES

IHC (Immunohiostchemistry)
Immunohistochemistry of IZUMO1 in human testis tissue with IZUMO1 antibody at 2.5 μg/mL.

WB (Western Blot)
Western blot analysis of IZUMO1 in human testis tissue lysate with IZUMO1 antibody at 1 μg/ml.

ADDITIONAL INFORMATION

Related Product Information for anti-IZUMO1 antibody	IZUMO1, 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). IZUMO1 is expressed as at least four isoforms produced by alternative splicing and contains one Ig-like (immunoglobulin-like) C2-type domain (3). Lack of IZUMO1 in males, due to homozygous mutation in the gene that encodes IZUMO1, results in sterility due to an inability to penetrate the plasma membrane of the egg (4).
Product Categories/Family for anti-IZUMO1 antibody	Stem Cell
References	Inoue N, Hamada D, Kamikubo H, et al. Molecular dissection of IZUMO1, a sperm protein essential for sperm-egg fusion. Development 2013; 140:3221-9. Inoue N, Ikawa M, and Okabe M. The mechanism of sperm-egg interaction and the involvement of IZUMO1 in fusion. Asian J. Androl. 2011; 13:81-7. Xing WJ, Han BD, Wu Q, et al. Molecular cloning and characterization of Izumo1 gene from sheep and cashmere goat reveal alternative splicing. Mol. Biol. Rep. 2011; 38:1995-2006. Inoue N, Ikawa M, Isotani A, et al. The immunoglobulin superfamily protein Izumo is required for sperm to fuse with eggs. Nature 2005; 434:234-8.

NCBI AND UNIPROT INFORMATION

NCBI GI #	194097475
NCBI GeneID	284359
NCBI Accession #	NP_872381
NCBI GenBank Nucleotide #	NM_182575.2
UniProt Accession #	Q8IYV9; Q6Q8P6; Q6Q8P7
Molecular Weight	Predicted: 35, 39, 42 kDa Observed: 52 kDa
NCBI Official Full Name	izumo sperm-egg fusion protein 1 isoform 1
NCBI Official Synonym Full Names	izumo sperm-egg fusion 1
NCBI Official Symbol	IZUMO1
NCBI Official Synonym Symbols	OBF; IZUMO
NCBI Protein Information	izumo sperm-egg fusion protein 1
UniProt Protein Name	Izumo sperm-egg fusion protein 1
UniProt Gene Name	**IZUMO1**
UniProt Synonym Gene Names	OBF
UniProt Entry Name	IZUM1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/izumo1-antibody-immunohistochemistry-western-blot-elisa/40830