

Rabbit ODF2 Polyclonal Antibody | anti-ODF2 antibody

ODF2 Antibody

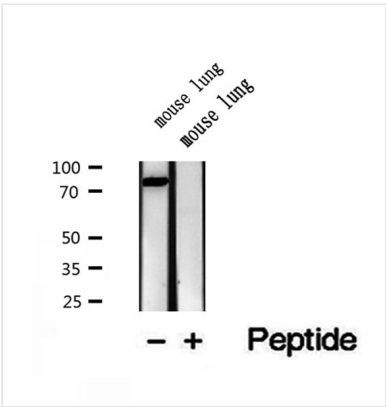
CATALOG # AAA322886	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

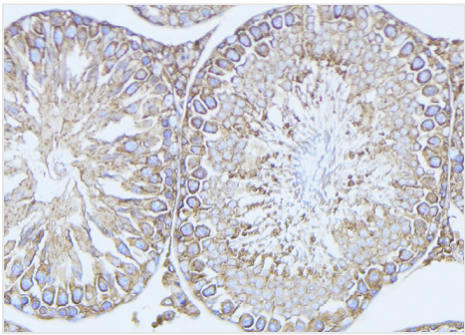
ODF2; Polyclonal Antibody; ODF2 Antibody; 84 kDa outer dense fiber protein; Cancer/testis antigen 134; Cenexin 1; Cenexin; Cenexin1 variant 1; CT134; FLJ44866; KKT 4; KKT4; MGC111096; MGC9034; ODF 2; ODF 84; odf2; ODF2/1; ODF2/2; ODF84; ODFP2_HUMAN; OTTHUMP00000022274; OTTHUMP00000022275; Outer dense fiber of sperm tail 2; Outer dense fiber of sperm tails 2; Outer dense fiber of sperm tails protein 2; Outer dense fiber of sperm tails; 84 kD; Outer dense fiber protein 2; Sperm outer dense fiber major protein 2; Sperm tail structural protein; Testis specific autoantigen; anti-ODF2 antibody

PRODUCT SPECIFICATIONS

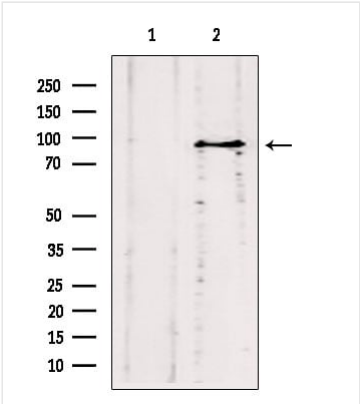
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ODF2 antibody detects endogenous levels of ODF2.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	824
Applicable Applications for anti-ODF2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ODF2.
Subcellular Location	Cytoplasm > Cytoskeleton > Centrosome. Cell Projection > Cilium. Cytoplasm > Cytoskeleton > Centrosome > Centriole. Cytoplasm > Cytoskeleton > Spindle Pole. Localized at the microtubule organizing centers in interphase and spindle poles in mitosis. Localized at the distal/subdistal appendages of mother centrioles.
Tissue Specificity	Testis-specific (at protein level). Highly expressed in cytoplasm of step 2 round spermatids. Detected in the middle piece and extends to about half the principal piece of the sperm tails.
Predicted Cross Reactivity	Pig, Horse, Sheep, Rabbit, Dog
Similarity	Pig (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of extracts of mouse lung tissue, using ODF2 antibody.



IHC (Immunohistochemistry)
AAA322886 at 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts from HepG2, using ODF2 antibody. Lane 1 was treated with the blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ODF2 antibody	Function: Seems to be a major component of sperm tail outer dense fibers (ODF). ODFs are filamentous structures located on the outside of the axoneme in the midpiece and principal piece of the mammalian sperm tail and may help to maintain the passive elastic structures and elastic recoil of the sperm tail. May have a modulating influence on sperm motility. Functions as a general scaffold protein that is specifically localized at the distal/subdistal appendages of mother centrioles. Component of the centrosome matrix required for the localization of PLK1 and NIN to the centrosomes. Required for the formation and/or maintenance of normal CETN1 assembly. Subunit Structure: Self-associates. Associates with microtubules and forms a fibrillar structure partially linked to the microtubule network. Interacts via its C-terminus with PLK1 (PubMed:16966375). Interacts with ODF1 (By similarity). Interacts with MARK4; the interaction is required for localization of ODF2 to centrioles (PubMed:23400999). Post-translational Modifications: Tyrosine phosphorylated. Similarity: Belongs to the ODF2 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	334278913
NCBI GeneID	4957
NCBI Accession #	NP_001229281.1
NCBI GenBank Nucleotide #	NM_001242352.1
UniProt Accession #	Q5BJF6; O14721; O60631; Q1W2J6; Q6UN26; Q7Z5I6; B1AND3; B4DRK4; B4DX73; B4DZ02; E7EWL2; F5H6J4

Molecular Weight	Observed: 67-100 kDa Predicted: 96 kDa
NCBI Official Full Name	outer dense fiber protein 2 isoform 11
NCBI Official Synonym Full Names	outer dense fiber of sperm tails 2
NCBI Official Symbol	ODF2
NCBI Official Synonym Symbols	CT134; ODF84; ODF2/1; ODF2/2
NCBI Protein Information	outer dense fiber protein 2
UniProt Protein Name	Outer dense fiber protein 2
UniProt Gene Name	ODF2

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/odf2-antibody-immunohistochemistry-western-blot-elisa/322886>