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Datasheet for ABIN1698248

anti-ODF2 antibody (AA 1-100) (AbBy Fluor® 647)

Overview

Quantity:	100 µL
Target:	ODF2
Binding Specificity:	AA 1-100
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ODF2 antibody is conjugated to AbBy Fluor® 647
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human ODF2/Cenexin1
Isotype:	IgG
Cross-Reactivity:	Rat
Predicted Reactivity:	Human
Purification:	Purified by Protein A.

Target Details

Target:	ODF2
Alternative Name:	ODF2/Cenexin1 (ODF2 Products)

Target Details

Background: Synonyms: sperm tail structural protein, 84 kDa outer dense fiber protein, Cenexin 1, Cenexin1 variant 1, KKT 4, KKT4, ODF 2, ODF 84, ODF2, ODF2/1, ODF2/2, ODF84, Outer dense fiber of sperm tail 2, Outer dense fiber of sperm tails 2, outer dense fiber of sperm tails, 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, Testis specic autoantigen, ODFP2_HUMAN.

Background: Cenexin1 is an isoform of ODF2, that unlike ODF2 is present in several somatic cell types. Cenexin1 acts as a general scaffold protein that is specifically localised to the distal/subdistal appendages of mother centrioles. Cenexin1 is required for proper localization of Plk1 to the centrosomes. This centrosomal localization of Plk1 is required for proper microtubule function. Cenexin1 recruits Plk1 via a C-terminal extension of cenexin1 that is not present in ODF2. Cenexin1 is required for proper mitotic progression, depletion of Cenexin1 ultimately leads to chromosome missegregation and apoptosis. The ODF2 (outer dense fiber 2) gene encodes both ODF2 and Cenexin1, which have very different functions. ODF2 is a major component of sperm tail outer dense fibers (ODFs). ODFs are filamentous structures located on the outside of the axoneme in the midpiece and principal piece of the mammalian sperm tail. They may help to maintain the passive elastic structures and elastic recoil of the sperm tail, and may also modulate sperm motility.

Gene ID: 4957

Pathways: [M Phase](#)

Application Details

Application Notes: IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months