

Anti-ODF2 Antibody [JE35-01]

HA721425



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB
Molecular Wt:	Predicted band size: 95 kDa
Clone number:	JE35-01

Description: Outer dense fiber protein 2, also known as cenexin, is a protein that in humans is encoded by the ODF2 gene. The outer dense fibers are cytoskeletal structures that surround the axoneme in the middle piece and principal piece of the sperm tail. The fibers function in maintaining the elastic structure and recoil of the sperm tail as well as in protecting the tail from shear forces during epididymal transport and ejaculation. Defects in the outer dense fibers lead to abnormal sperm morphology and infertility. This gene encodes one of the major outer dense fiber proteins. Multiple protein isoforms are encoded by transcript variants of this gene; however, not all isoforms and variants have been fully described.

Immunogen: Synthetic peptide within Human ODF2 aa 780-829 / 829.

Positive control: HEK-293 cell lysate, K-562 cell lysate, MCF7 cell lysate, HeLa cell lysate, U-2 OS cell lysate, Jurkat cell lysate, HepG2 cell lysate.

Subcellular location: Cytoplasm, cytoskeleton, microtubule organizing center, centrosome, Cell projection, cilium, microtubule organizing center, centriole, spindle pole, flagellum.

Database links: SwissProt: Q5BJF6 Human

Recommended Dilutions:

WB 1:1,000

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

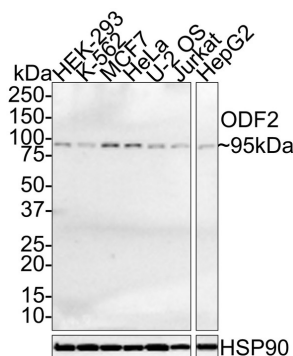
Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of ODF2 on different lysates with Rabbit anti-ODF2 antibody (HA721425) at 1/1,000 dilution.



Lane 1: HEK-293 cell lysate

Lane 2: K-562 cell lysate

Lane 3: MCF7 cell lysate

Lane 4: HeLa cell lysate

Lane 5: U-2 OS cell lysate

Lane 6: Jurkat cell lysate

Lane 7: HepG2 cell lysate

Lysates/proteins at 15 µg/Lane.

Predicted band size: 95 kDa

Observed band size: 95 kDa

Exposure time: 3 minutes;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721425) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:100,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Zhu ZJ et al. Novel mutation in ODF2 causes multiple morphological abnormalities of the sperm flagella in an infertile male. Asian J Androl. 2022 Sep-Oct
2. Czerny CC et al. FOXA1 is a transcriptional activator of Odf2/Cenexin and regulates primary ciliation. Sci Rep. 2022 Dec

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