Datasheet for ABIN7600042

anti-MEIOB antibody (AA 140-442)

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Overview

Quantity:	100 µg
Target:	MEIOB
Binding Specificity:	AA 140-442
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MEIOB antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Purpose:	Anti-MEIOB Antibody Picoband®
Immunogen:	E.coli-derived human MEIOB recombinant protein (Position: I140-V442). Human MEIOB shares 77.9% and 76.1% amino acid (aa) sequence identity with mouse and rat MEIOB, respectively.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-MEIOB Antibody Picoband® (ABIN7600042). Tested in WB, ICC/IF, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	MEIOB
Alternative Name:	MEIOB (MEIOB Products)
Background:	Synonyms: MEIOB, C16orf73, Meiosis-specific with OB domain-containing protein, EC 3.1.-.- Background: Predicted to enable chromatin binding activity, single-stranded DNA 3'-5' exodeoxyribonuclease activity, and single-stranded DNA binding activity. Predicted to be involved in double-strand break repair via homologous recombination, fertilization, and meiotic nuclear division. Predicted to be located in cytoplasm. Implicated in spermatogenic failure 22.
Molecular Weight:	49 kDa
Gene ID:	254528
UniProt:	Q8N635

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, Human 1. Caburet, S., Todeschini, A.-L., Petrillo, C., Martini, E., Farran, N. D., Legois, B., Livera, G., Younis, J. S., Shalev, S., Veitia, R. A. A truncating MEIOB mutation responsible for familial primary ovarian insufficiency abolishes its interaction with its partner SPATA22 and their recruitment to DNA double-strand breaks. EBioMedicine 42: 524-531, 2019. 2. Gershoni, M., Hauser, R., Yogev, L., Lehavi, O., Azem, F., Yavetz, H., Pietrokovski, S., Kleiman, S. E. A familial study of azoospermic men identifies three novel causative mutations in three new human azoospermia genes. Genet. Med. 19: 998-1006, 2017. 3. Luo, M., Yang, F., Leu, N. A., Landaiche, J., Handel, M. A., Benavente, R., La Salle, S., Wang, P. J. MEIOB exhibits single-stranded DNA-binding and exonuclease activities and is essential for meiotic recombination. Nature Commun. 4: 2788, 2013. Note: Electronic Article.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.