

Rabbit MOSPD2 Polyclonal Antibody | anti-MOSPD2 antibody

Anti-MOSPD2 Antibody Picoband

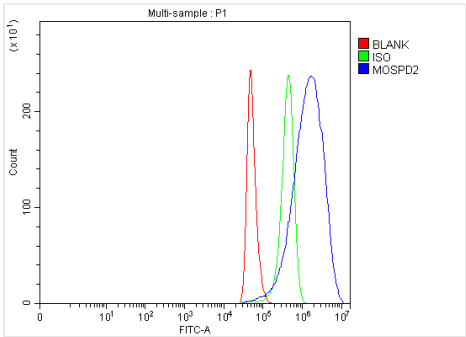
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA20007	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

MOSPD2; Polyclonal Antibody; Anti-MOSPD2 Antibody Picoband; Transmembrane protein 240; kelch repeat and BTB domain containing 2; Kelch repeat and BTB domain-containing protein 2; BTB and kelch domain-containing protein 1; KBTBD2; BKLHD1; KIAA1489; anti-MOSPD2 antibody

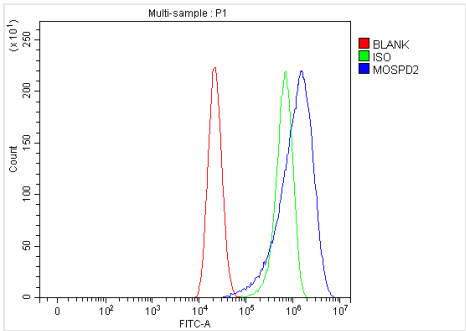
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Detected in liver, skeletal muscle, kidney, pancreas, spleen, thyroid, testis, ovary, small intestine and colon.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-MOSPD2 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Application Notes	WB: 0.25-0.5ug/ml, Human, Mouse, Rat IHC: 2-5ug/ml, Human, Mouse, Rat FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human MOSPD2 recombinant protein (Position: R111-Q496).
Subcellular Localization	Cul3-RING ubiquitin ligase complex
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Required for DNA double-strand breaks (DSBs) formation in unsynapsed regions during meiotic recombination. Probably acts by forming a complex with MEI4 and REC114, which activates DSBs formation in unsynapsed regions, an essential step to ensure completion of synapsis. Not required for HORMAD1 functions in pairing-independent synaptonemal complex formation, ATR recruitment to unsynapsed axes, meiotic silencing of unsynapsed chromatin (MSUC) or meiotic surveillance.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM (Flow Cytometry)

Figure 9. Flow Cytometry analysis of Hela cells using anti-MOSPD2 antibody (AAA20007).Overlay histogram showing Hela cells stained with AAA20007 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MOSPD2 Antibody (AAA20007, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM (Flow Cytometry)

Figure 8. Flow Cytometry analysis of Caco-2 cells using anti-MOSPD2 antibody (AAA20007).Overlay histogram showing Caco-2 cells stained with AAA20007 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MOSPD2 Antibody (AAA20007, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

References	1. Di Mattia, T., Martinet, A., Ikhlef, S., McEwen, A. G., Nomine, Y., Wendling, C., Poussin-Courmontagne, P., Voilquin, L., Eberling, P., Ruffenach, F., Cavarelli, J., Slee, J., Levine, T. P., Drin, G., Tomasetto, C., Alpy, F. FFAT motif phosphorylation controls formation and lipid transfer function of inter-organelle contacts. EMBO J. 39: e104369, 2020. 2. Di Mattia, T., Wilhelm, L. P., Ikhlef, S., Wendling, C., Spehner, D., Nomine, Y., Giordano, F., Mathelin, C., Drin, G., Tomasetto, C., Alpy, F. Identification of MOSPD2, a novel scaffold for endoplasmic reticulum membrane contact sites. EMBO Rep. 19: e45453, 2018. 3. Mendel, I., Yacov, N., Salem, Y., Propheta-Meiran, O., Ishai, E., Breitbart, E. Identification of motile sperm domain-containing protein 2 as regulator of human monocyte migration. J. Immun. 198: 2125-2132, 2017.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	294489346
NCBI GeneID	158747
NCBI Accession #	NP_001170946.1
NCBI GenBank Nucleotide #	NM_001177475.1
UniProt Accession #	Q8NHP6; Q8N3H2; Q8NA83
Molecular Weight	52,121 Da
NCBI Official Full Name	motile sperm domain-containing protein 2 isoform 2
NCBI Official Synonym Full Names	motile sperm domain containing 2
NCBI Official Symbol	MOSPD2
NCBI Protein Information	motile sperm domain-containing protein 2
UniProt Protein Name	Motile sperm domain-containing protein 2
UniProt Gene Name	MOSPD2
UniProt Entry Name	MSPD2_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/mospd2-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/20007>