bsm-52401R **[Primary Antibody]**

MKLP1 Recombinant Rabbit mAb

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DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 7C9
GeneID: 9493
SWISS: Q02241
Target: MKLP1
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background: The protein encoded by this gene is a member of kinesin-like protein family. This family includes microtubule-dependent molecular motors that transport organelles within cells and move chromosomes during cell division. This protein has been shown to cross-bridge antiparallel microtubules and drive microtubule movement in vitro. Alternate splicing of this gene results in two transcript variants encoding two different isoforms.

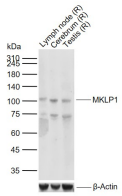
Applications: **WB** (1:500-1000)
Flow-Cyt (2ug/Test)
ICC/IF (1:50)

Reactivity: Human, Rat
(predicted: Mouse)

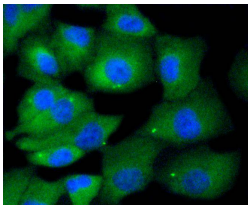
Predicted MW.: 110 kDa

Subcellular Location: Cytoplasm ,Nucleus

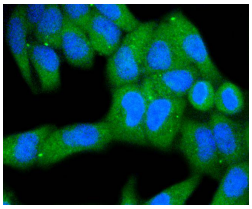
VALIDATION IMAGES



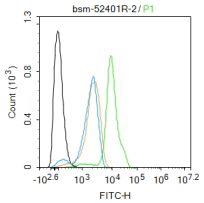
Sample: Lane 1: Rat Lymph node tissue lysates Lane 2: Rat Cerebrum tissue lysates Lane 3: Rat Testis tissue lysates Primary: Anti-MKLP1 (bsm-52401R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 110 kDa Observed band size: 100 kDa



A549 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (MKLP1) Monoclonal Antibody, Unconjugated (bsm-52401R) 1:50, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei.



Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Antibody incubation with (MKLP1) Monoclonal Antibody, Unconjugated (bsm-52401R) 1:50, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue) was used to stain the cell nuclei.



Blank control:A549. Primary Antibody (green line): Rabbit Anti-MKLP1 antibody (bsm-52401R) Dilution: 2ul/Test; Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at room temperature.The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room

temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=13.417]** Kari L. Price. et al. Evolutionarily conserved midbody remodeling precedes ring canal formation during gametogenesis. DEV CELL. 2023 Mar 09 ICC ;Mouse. 36898376