Anti-LSM8 Antibody (Clone#6B11)

Catalog Number: *M10947*

BOSTER®
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
East Lake High-Tech Development Zone, Wuhan.
Web: www.boster.com ***Phone:*** 027-67845390/1/2 ***Email:*** boster@boster.com

Basic Information

Product Name	Anti-LSM8 Antibody (Clone#6B11)
Gene Name	LSM8
Source	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human LSM8 recombinant protein (Position: M1-H96). Human LSM8 shares 100% amino acid (aa) sequence identity with both mouse and rat LSM8.
Concentration	500 ug/ml
Purification	protein G purified.
Observed MW	16 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

U6 snRNA-associated Sm-like protein LSm8 is a protein that in humans is encoded by the LSM8 gene. This gene encodes a member of the like-Sm family of proteins. The encoded protein consists of a closed barrel shape, made up of five anti-parallel beta strands and an alpha helix. This protein partners with six paralogs to form a heteroheptameric ring which transiently binds U6 small nuclear RNAs and is involved in the general maturation of RNA in the nucleus.

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Selected Validation Data

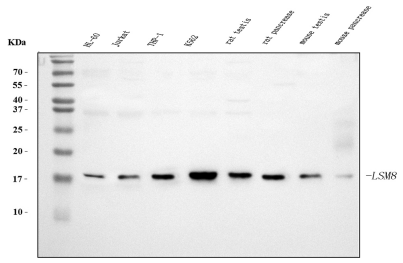

Figure 1. Western blot analysis of LSM8 using anti-LSM8 antibody (M10947). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HL-60 whole cell lysates,
Lane 2: human Jurkat whole cell lysates,
Lane 3: human THP-1 whole cell lysates,
Lane 4: human K562 whole cell lysates,
Lane 5: Rat testis tissue lysates,
Lane 6: Rat pancrease tissue lysates,
Lane 7: mouse testis tissue lysates,
Lane 8: mouse pancrease tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with mouse anti-LSM8 antigen affinity purified monoclonal antibody (M10947) at a dilution of 1:1000 and probed with a goat anti-mouse IgG-HRP secondary antibody (Catalog # BA1050). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for LSM8 at approximately 16 kDa. The expected band size for LSM8 is at 10 kDa.

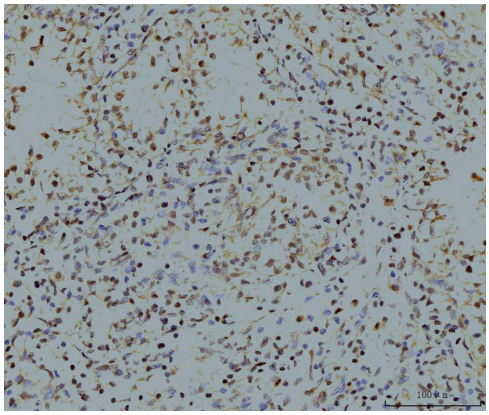

Figure 2. IHC analysis of LSM8 using anti-LSM8 antibody (M10947). LSM8 was detected in a paraffin-embedded section of human renal clear cell carcinoma tissue. Biotinylated goat anti-mouse IgG was used as secondary antibody. The tissue section was incubated with mouse anti-LSM8 Antibody (M10947) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1021) with DAB (Catalog # AR1027) as the chromogen.

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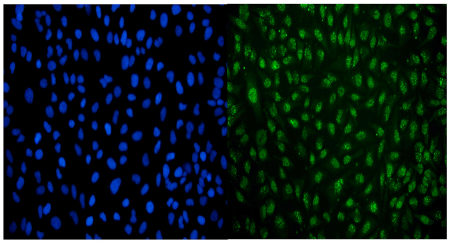

Figure 6. IF analysis of LSM8 using anti-LSM8 antibody (M10947). LSM8 was detected in an immunocytochemical section of Hela cells. The section was incubated with mouse anti-LSM8 Antibody (M10947) at a dilution of 1:100. Dylight488-conjugated Anti-mouse IgG Secondary Antibody (green)(Catalog#BA1126) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).

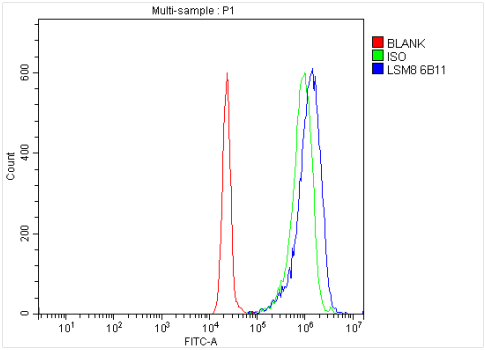

Figure 7. Flow Cytometry analysis of Jurkat cells using anti-LSM8 antibody (M10947).
Overlay histogram showing Jurkat cells stained with M10947 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-LSM8 Antibody (M10947) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-mouse IgG (BA1126) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was mouse IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.