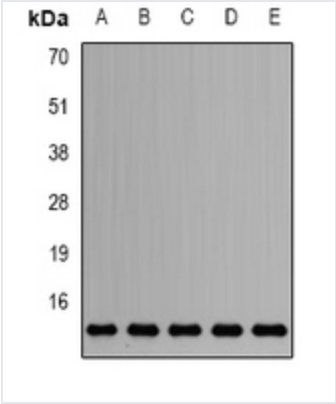
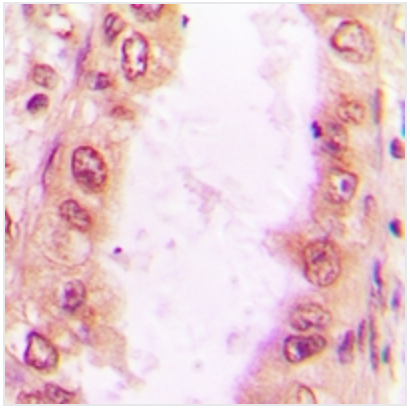
Sm-D2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

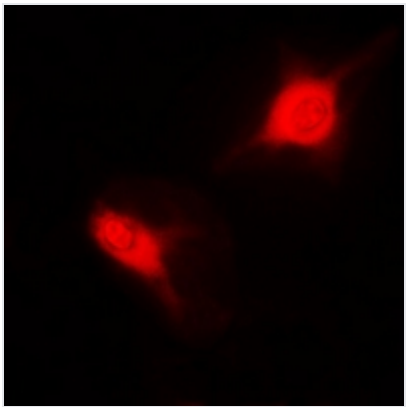
Product Name	Sm-D2, Polyclonal Antibody
Full Product Name	Rabbit anti-Sm-D2 Antibody
Product Gene Name	anti-Sm-D2 antibody
Product Synonym Names	SNRPD1; Small nuclear ribonucleoprotein Sm D2; Sm-D2; snRNP core protein D2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	118
OMIM	601061
3D Structure	ModBase 3D Structure for P62316
Immunogen	Recombinant full length protein of human Sm-D2
Product Categories/Family for anti-Sm-D2 antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-Sm-D2 antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunochemistry (IC)
Application Notes for anti-Sm-D2 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF:IC: 1:50-1:200
Related Product Information for anti-Sm-D2 antibody	MBS4511246 is an antibody targeting Sm-D2. Also known as Rabbit anti-Sm-D2 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-Sm-D2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-Sm-D2 antibody
Western blot analysis of Sm-D2 expression in HepG2 (A), Jurkat (B), mouse testis (C), mouse heart (D), rat brain (E) whole cell lysates.



Immunohistochemistry (IHC) of anti-Sm-D2 antibody
Immunohistochemical analysis of Sm-D2 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescence (IF) of anti-Sm-D2 antibody
Immunofluorescent analysis of Sm-D2 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Sm-D2. It may not necessarily be applicable to this product.

NCBI GI #	51338666
NCBI GeneID	6633
NCBI Accession #	P62316.1
UniProt Primary Accession #	P62316
UniProt Secondary Accession #	P62317
UniProt Related Accession #	P62316
NCBI Official Full Name	Small nuclear ribonucleoprotein Sm D2
NCBI Official Synonym Full Names	small nuclear ribonucleoprotein D2 polypeptide 16.5kDa
NCBI Official Symbol	SNRPD2
NCBI Official Synonym Symbols	SMD2; Sm-D2; SNRPD1

UniProt Protein Name	Small nuclear ribonucleoprotein Sm D2
UniProt Synonym Protein Names	snRNP core protein D2
UniProt Gene Name	SNRPD2
UniProt Synonym Gene Names	SNRPD1; Sm-D2
UniProt Entry Name	SMD2_HUMAN
NCBI Protein Information	small nuclear ribonucleoprotein Sm D2; snRNP core protein D2
NCBI Summary for Sm-D2	The protein encoded by this gene belongs to the small nuclear ribonucleoprotein core protein family. It is required for pre-mRNA splicing and small nuclear ribonucleoprotein biogenesis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]
UniProt Comments for Sm-D2	snRNP D2: Required for pre-mRNA splicing. Required for snRNP biogenesis. Belongs to the snRNP core protein family. Protein type: RNA splicing; Spliceosome Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: small nuclear ribonucleoprotein complex; nucleoplasm; spliceosome; snRNP U1; cytosol; U12-dependent spliceosome Molecular Function: protein binding Biological Process: nuclear mRNA splicing, via spliceosome; spliceosomal snRNP biogenesis; RNA splicing; spliceosome assembly; gene expression
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