

Rabbit SmD3 Polyclonal Antibody | anti-SmD3 antibody

SmD3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327683	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

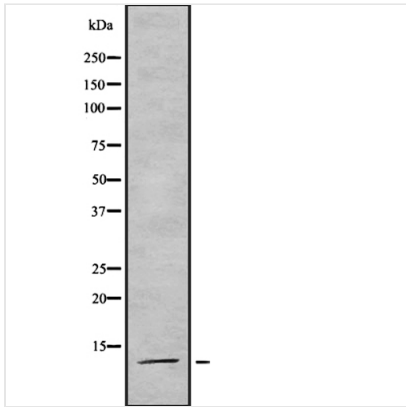
PRODUCT SYNONYMS

SmD3; Polyclonal Antibody; SmD3 Antibody; Sm D3; Sm-D3; small nuclear ribonucleoprotein D3 polypeptide 18kDa; Small nuclear ribonucleoprotein Sm D3; SMD3_HUMAN; snRNP core protein D3; SNRPD3; anti-SmD3 antibody

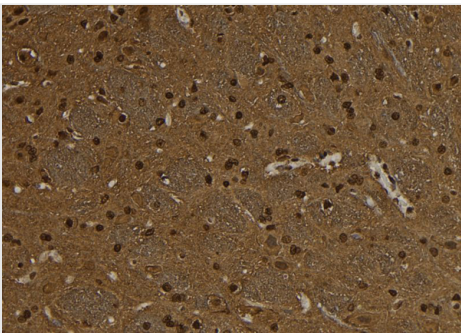
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	SmD3 antibody detects endogenous levels of total SmD3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	126
Applicable Applications for anti-SmD3 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SmD3
Subcellular Location	Nucleus.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Belongs to the snRNP core protein family
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis Smd3 using LOVO whole cell lysates



IHC (Immunohistochemistry)
AAA327683 at 1/100 staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-Smd3 antibody	Function: Core component of the spliceosomal U1, U2, U4 and U5 small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome. Thereby, plays an important role in the splicing of cellular pre-mRNAs. Most spliceosomal snRNPs contain a common set of Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG that assemble in a heptameric protein ring on the Sm site of the small nuclear RNA to form the core snRNP. As part of the U7 snRNP it is involved in histone 3'-end processing. Subunit Structure: U1 snRNP is for instance composed of the 7 core Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG that assemble in a heptameric protein ring on the Sm site of the small nuclear RNA to form the core snRNP, and at least three U1 snRNP-specific proteins SNRNP70/U1-70K, SNRPA/U1-A and SNRPC/U1-C. Component of the U11/U12 snRNPs that are part of the U12-type spliceosome. Component of the U7 snRNP complex, or U7 Sm protein core complex, at least composed of LSM10, LSM11, SNRPB, SNRPD3, SNRPE, SNRPF, SNRPG and U7 snRNA. Part of the SMN-Sm complex that contains SMN1, GEMIN2/SIP1, DDX20/GEMIN3, GEMIN4, GEMIN5, GEMIN6, GEMIN7, GEMIN8, STRAP/UNRIP and the Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG; catalyzes core snRNPs assembly. Forms a 6S pICln-Sm complex composed of CLNS1A/pICln, SNRPD1, SNRPD2, SNRPE, SNRPF and SNRPG; ring-like structure where CLNS1A/pICln mimics additional Sm proteins and which is unable to assemble into the core snRNP. Post-translational Modifications: Methylated on arginine residues by PRMT5 and PRMT7; probable asymmetric dimethylation which is required for assembly and biogenesis of snRNPs. Similarity: Belongs to the snRNP core protein family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	521258690
NCBI GeneID	6634
NCBI Accession #	NP_001265585.1
NCBI GenBank Nucleotide #	NM_001278656.1
UniProt Accession #	P62318; P43331; B4DJP7; B5BU13
Molecular Weight	Observed: 14 kDa Predicted: 14 kDa
NCBI Official Full Name	small nuclear ribonucleoprotein Sm D3
NCBI Official Synonym Full Names	small nuclear ribonucleoprotein D3 polypeptide
NCBI Official Symbol	SNRPD3
NCBI Official Synonym Symbols	SMD3; Sm-D3
NCBI Protein Information	small nuclear ribonucleoprotein Sm D3

UniProt Protein Name	Small nuclear ribonucleoprotein Sm D3
UniProt Gene Name	SNRPD3
UniProt Synonym Gene Names	Sm-D3

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://www.aaabiotech.com/polyclonal/smd3-antibody-immunohistochemistry-western-blot-elisa/327683>