Nesprin 2 (NESP2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Nesprin 2 (Nesp2), Polyclonal Antibody
Full Product Name	PE-Linked Polyclonal Antibody to Nesprin 2 (Nesp2)
Product Gene Name	anti-Nesp2 antibody
Product Synonym Names	SYNE2; NUA; NUANCE; SYNE-2; Synaptic nuclear envelope protein 2; Nuclear envelope spectrin repeat protein 2; Nucleus and actin connecting element protein
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Pig
Concentration	>=100ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: Nesp2 (MBS2026706) PE Conjugated Antibody: Nesp2 (MBS2077431)
Matching Pairs	PE Conjugated Antibody: Nesp2 (MBS2077431) Immunogen: Nesp2 (MBS2029041)
Molecular Weight	119,457 Da
OMIM	AF435010 mRNA
3D Structure	ModBase 3D Structure for Q8WXH0
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Immunogen	Nesp2 (Glu6~Gln296)
Conjugation	PE
Cross Reactivity	Human, Pig
Unconjugated Antibody	The unconjugated antibody version of this item is also available as catalog #MBS2026706
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-Nesp2 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunohistochemistry (IHC) Formalin/Paraffin, ELISA (ELISA)
Related Product Information for anti-Nesp2 antibody	MBS2077431 is an antibody targeting Nesp2. Also known as PE-Linked Polyclonal Antibody to Nesprin 2 (Nesp2). Reactive in Human, Pig. Host: Rabbit.
Other Notes	Small volumes of anti-Nesp2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Nesp2. It may not necessarily be applicable to this product.

NCBI GI #	33624861
NCBI GeneID	23224

NCBI Accession #	NP_878914.1
UniProt Primary Accession #	Q8WXH0
UniProt Secondary Accession #	Q540G1; Q86YP9; Q8N1S3; Q8NF49; Q8TER7; Q8WWW3; Q8WWW4; Q8WWW5; B4DND7; B4DPR6; I6XXQ5
UniProt Related Accession #	Q8WXH0
GenBank Nucleotide #	NM_182910.2
NCBI Official Full Name	nesprin-2 isoform 2
NCBI Official Synonym Full Names	spectrin repeat containing nuclear envelope protein 2
NCBI Official Symbol	SYNE2
NCBI Official Synonym Symbols	NUA; EDMD5; KASH2; Nesp2; TROPH; NUANCE; SYNE-2; Nesprin-2
UniProt Protein Name	Nesprin-2
UniProt Synonym Protein Names	KASH domain-containing protein 2; KASH2; Nuclear envelope spectrin repeat protein 2; Nucleus and actin connecting element protein; Protein NUANCE; Synaptic nuclear envelope protein 2; Syne-2
UniProt Gene Name	SYNE2
UniProt Synonym Gene Names	KIAA1011; NUA; KASH2; Protein NUANCE; Syne-2
NCBI Protein Information	nesprin-2
NCBI Summary for Nesp2	The protein encoded by this gene is a nuclear outer membrane protein that binds cytoplasmic F-actin. This binding tethers the nucleus to the cytoskeleton and aids in the maintenance of the structural integrity of the nucleus. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]
UniProt Comments for Nesp2	SYNE2: a nuclear transmembrane protein involved in the maintenance of nuclear organization and structural integrity. The largest part of the protein is cytoplasmic, while its C-terminal part is associated with the nuclear envelope, most probably the outer nuclear membrane. Remains associated with the nuclear envelope during its breakdown in mitotic cells. Probable anchoring protein which theters the nucleus to the cytoskeleton. Connects nuclei to the cytoskeleton by interacting with the nuclear envelope and with F-actin in the cytoplasm. Nine alternatively spliced isoforms have been described. Protein type: Adaptor/scaffold; Membrane protein, integral Chromosomal Location of Human Ortholog: 14q23.2 Cellular Component: cytoplasm; filopodium membrane; focal adhesion; intermediate filament cytoskeleton; mitochondrion; nuclear envelope; nuclear lumen; nuclear membrane; nucleus; sarcoplasmic reticulum; Z disc Molecular Function: actin binding; protein binding Biological Process: centrosome localization; nuclear migration; nuclear migration along microfilament; positive regulation of cell migration Disease: Emery-dreifuss Muscular Dystrophy 5, Autosomal Dominant
Research Articles on Nesp2	**1.** We show that AMPH-1/BIN1 binds to nesprin and actin, as well as to the microtubule-binding protein CLIP170 in both species. We propose that BIN1 has a direct and evolutionarily conserved role in nuclear positioning, altered in myopathies.
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