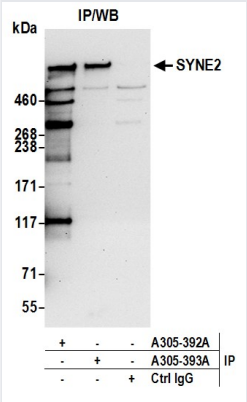
SYNE2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SYNE2/Nesprin 2, Polyclonal Antibody
Full Product Name	Rabbit anti-SYNE2/Nesprin 2 Antibody, Affinity Purified
Product Gene Name	anti-SYNE2 antibody
Product Synonym Names	nucleus and actin connecting element protein; SYNE-2; synaptic nuclei expressed gene 2; synaptic nuclear envelope protein 2; Nesp2; spectrin repeat containing, nuclear envelope 2; TROPH; Protein NUANCE; polytrophin; nuclear envelope spectrin repeat protein 2; NUANCE; NUA; nesprin 2; KASH2; KASH domain-containing protein 2; EDMD5; Nesprin-2; Nesprin-2; spectrin repeat containing nuclear envelope protein 2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	1000ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
Molecular Weight	796,442 Da
OMIM	608442
3D Structure	ModBase 3D Structure for Q8WXH0
Immunogen	Between 1075 and 1125
Conjugation	Unconjugated
Product Categories/Family for anti-SYNE2 antibody	Primary Antibodies
Applications Tested/Suitable for anti-SYNE2 antibody	Immunoprecipitation (IP)
Application Notes for anti-SYNE2 antibody	IP: 6ug/mg lysate
Related Product Information for anti-SYNE2 antibody	SYNE2/Nesprin 2 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 [taken from NCBI Entrez Gene (Gene ID: 23224)].
Other Notes	Small volumes of anti-SYNE2 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.
Searchable Terms for SYNE2 purchase	MBS3905526 is an antibody targeting SYNE2. Also known as Rabbit anti-SYNE2/Nesprin 2 Antibody, Affinity Purified. Reactive in Human. Host: Rabbit.



Immunoprecipitation (IP) of anti-SYNE2 antibody
Detection of human SYNE2 by western blot of immunoprecipitates. Samples: Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-SYNE2 antibody MBS3905526 (lot MBS3905526-1) used for IP at 6 ug per reaction. SYNE2 was also immunoprecipitated by rabbit anti-SYNE2 antibody MBS3905527. For blotting immunoprecipitated SYNE2, MBS3905526 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SYNE2. 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; Q8N1S3; Q8NF49; Q8TER7; Q8WWW3; Q8WWW4; Q8WWW5; Q8WXH1; Q9NU50; Q9UFQ4; Q9Y2L4
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 2
NCBI Official Symbol	SYNE2
NCBI Official Synonym Symbols	NUA; EDMD5; Nesp2; TROPH; NUANCE; SYNE-2; Nesprin-2
UniProt Protein Name	Nesprin-2
UniProt Synonym Protein Names	Nuclear envelope spectrin repeat protein 2; Nucleus and actin connecting element protein; Protein NUANCE; Synaptic nuclear envelope protein 2
Protein Family	Nesprin
UniProt Gene Name	SYNE2
UniProt Synonym Gene Names	KIAA1011; NUA; Protein NUANCE; Syne-2
UniProt Entry Name	SYNE2_HUMAN
NCBI Protein Information	nesprin-2; nesprin 2; polytrophin; synaptic nuclei expressed gene 2; synaptic nuclear envelope protein 2; nuclear envelope spectrin repeat protein 2; nucleus and actin connecting element protein
NCBI Summary for SYNE2	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 SYNE2	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: Membrane protein, integral; Adaptor/scaffold Chromosomal Location of Human Ortholog: 14q23.2 Cellular Component: nuclear outer membrane; filopodium membrane; intermediate filament cytoskeleton; sarcoplasmic reticulum membrane; nuclear membrane; focal adhesion; nuclear lumen; mitochondrion; sarcoplasmic reticulum; integral to membrane; nuclear envelope; Z disc; nucleoplasm; cytoplasm; nucleus Molecular Function: actin filament binding; protein binding; actin binding Biological Process: centrosome localization; establishment and/or maintenance of cell polarity; nuclear migration along microfilament; nuclear migration; nuclear membrane organization and biogenesis; positive regulation of cell migration Disease: Emery-dreifuss Muscular Dystrophy 5, Autosomal Dominant
Research Articles on SYNE2	**1.** Each mutation in LMNA has a distinct impact on the Nersprin-2 interaction that substantially explains how distinct mutations in widely expressed genes lead to the formation of phenotypically different diseases.
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