



SYNE2 Polyclonal Antibody

Catalog No	YP-Ab-05816
Isotype	IgG
Reactivity	Human;Mouse
Applications	IHC;IF
Gene Name	SYNE2 KIAA1011 NUA
Immunogen	Synthesized peptide derived from human protein . at AA range: 360-440
Specificity	SYNE2 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC-p 1:50-300. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SYNE2;NUA;NUANCE;SYNE 2;SYNE2 KIAA1011 NUA;Nesprin-2 (Nuclear envelope spectrin repeat protein 2) (Nucleus and actin connecting element protein) (Protein NUANCE) (Synaptic nuclear envelope protein 2) (Syne-2)
Observed Band	757kD
Calculated Molecular Weight	757kD
Cell Pathway	Nucleus outer membrane ; Single-pass type IV membrane protein ; Cytoplasmic side . Sarcoplasmic reticulum membrane ; Single-pass type IV membrane protein . Cell membrane ; Single-pass membrane protein . Cytoplasm, cytoskeleton. Mitochondrion. Nucleus, nucleoplasm. Cytoplasm, myofibril, sarcomere, Z line . Different isoform patterns are found in the different compartments of the cell. The isoforms having the C-terminal transmembrane span can be found in several organellar membranes like the nuclear envelope, the sarcoplasmic reticulum of myoblasts, or the lamellipodia and focal adhesions at the cell membrane. The largest part of the outer nuclear membrane-associated protein is cytoplasmic, while its C-terminal part is associated with the nuclear envelope, most probably the outer nuclear mem
Tissue Specificity	Widely expressed, with higher level in kidney, adult and fetal liver, stomach and placenta. Weakly expressed in skeletal muscle and brain. Isoform 5 is highly expressed in pancreas, skeletal muscle and heart.



Function

domain: The Klarsicht domain mediates the nuclear envelope targeting.,
function: Involved in the maintenance of nuclear organization and structural integrity. Probable anchoring protein which tethers the nucleus to the cytoskeleton. Connects nuclei to the cytoskeleton by interacting with the nuclear envelope and with F-actin in the cytoplasm.,
similarity: Belongs to the nesprin family.,
similarity: Contains 1 actin-binding domain.,
similarity: Contains 1 KASH domain.,
similarity: Contains 13 LRR (leucine-rich) repeats.,
similarity: Contains 2 CH (calponin-homology) domains.,
similarity: Contains 9 spectrin repeats.,
subcellular location: 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.,
subunit: Interacts with F-actin

Background

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],

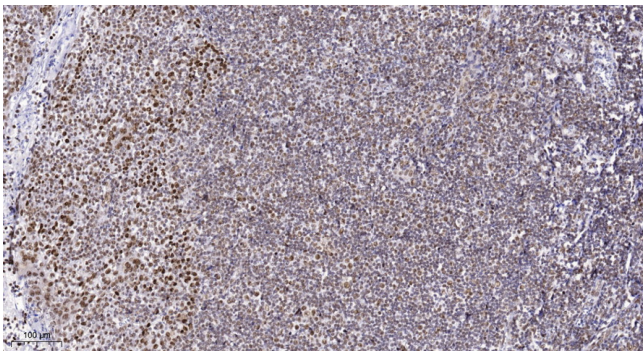
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200(room temperature, 45min).