突触核膜蛋白 2 抗体

产品货号： mlR19208

英文名称： Nesprin 2

中文名称： 突触核膜蛋白 2 抗体

别　　名： Nesprin2; Nesprin-2; DKFZP434H2235; DKFZp686E01115; DKFZp686H1931; FLJ11014; FLJ43727; FLJ45710; FLJ46790; KIAA1011; Nesprin-2; Nesprin2; NUA; NUANCE; Nuclear envelope spectrin repeat protein 2; Nucleus and actin connecting element; Nucleus and actin connecting element protein; Protein NUANCE; Spectrin repeat containing nuclear envelope 2; Synaptic nuclear envelope protein 2; Synaptic nuclei expressed gene 2; SYNE 2; Syne-2; SYNE2; SYNE2_HUMAN.

研究领域： 心血管　细胞生物　神经生物学　信号转导

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human,

产品应用： ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500 （石蜡切片需做抗原修复）
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

分 子 量： 796kDa

细胞定位： 细胞浆 细胞膜

性　　状： Lyophilized or Liquid

浓　　度： 1mg/ml

免 疫 原： KLH conjugated synthetic peptide derived from human Nesprin 2:3801-3900/6885

亚　　型： IgG

纯化方法： affinity purified by Protein A

储 存 液： 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件： Store at -20 ° C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20° C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ° C.

PubMed： PubMed

产品介绍： 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]

Function:

Multi-isomeric modular protein which forms a linking network between organelles and the actin cytoskeleton to maintain the subcellular spatial organization. Component of SUN-protein-containing multivariate complexes also called LINC complexes which link the nucleoskeleton and cytoskeleton by providing versatile outer nuclear membrane attachment sites for cytoskeletal filaments. Involved in the maintenance of nuclear organization and structural integrity. Connects nuclei to the cytoskeleton by interacting with the nuclear envelope and with F-actin in the cytoplasm. Specifically, SYNE2 and SUN2 assemble in arrays of transmembrane actin-associated nuclear (TAN) lines which are bound to F-actin cables and couple the nucleus to retrograde actin flow during actin-dependent nuclear movement. Required for centrosome migration to the apical cell surface during early ciliogenesis.

Subcellular Location:

Nucleus outer membrane. Sarcoplasmic reticulum membrane. Cell membrane. Cytoplasm > cytoskeleton. Mitochondrion. Nucleus > nucleoplasm. 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 membrane. Remains associated with the nuclear envelope during its breakdown in mitotic cells. Shorter solubles isoforms can be found in the cytoplasm and within the nucleus.

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.

DISEASE:

Defects in SYNE2 are the cause of Emery-Dreifuss muscular dystrophy type 5 (EDMD5) [MIM:612999]. A degenerative myopathy characterized by weakness and atrophy of muscle without involvement of the nervous system, early contractures of the elbows, Achilles tendons and spine, and cardiomyopathy associated with cardiac conduction defects.

Similarity:

Belongs to the nesprin family. Contains 1 actin-binding domain. Contains 2 CH (calponin-homology) domains. Contains 1 KASH domain. Contains 9 spectrin repeats.

SWISS:

Q8WXH0

Gene ID:

23224

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.