

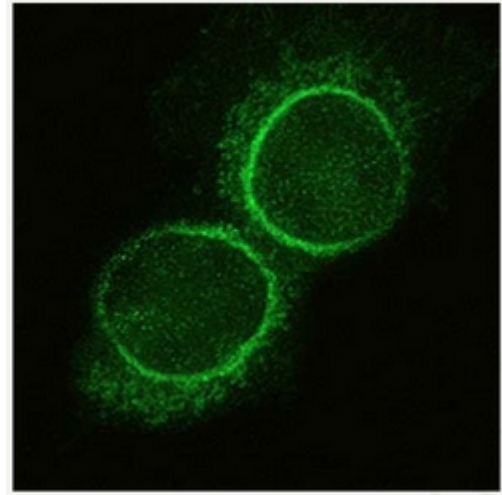
Polyclonal Antibody to Nesprin-1 - Aff - Purified

Alternate names:	ARCA1, C6orf98, CPG2, Enaptin, KIAA0796, KIAA1262, KIAA1756, LOC102546492, MYNE1, Myne-1, Myocyte nuclear envelope protein 1, Nesprin 1, Nuclear envelope spectrin repeat protein 1, SYNE1, Synaptic nuclear envelope protein 1, Syne-1, nesprin-1-like
Catalog No.:	BP4500
Quantity:	0.1 ml
Background:	There are two genes encoding members of a new family of type II integral membrane proteins. Both are ubiquitously expressed, and tissue-specific alternative mRNA initiation and splicing generate at least two major isoforms of each protein, with the smaller isoforms being truncated at the N-terminus. These proteins are called nesprin-1 and -2 for nuclear envelope spectrin repeat, as they are characterized by the presence of multiple, clustered spectrin repeats, bipartite nuclear localization sequences and a conserved C-terminal, single transmembrane domain. Transient transfection of GFP-fusion expression constructs demonstrated their localization to the nuclear membrane with a novel C-terminal, TM-domain-containing sequence essential for perinuclear localization. Nesprin-1 is developmentally regulated in both smooth and skeletal muscle and is relocalized from the nuclear envelope to the nucleus and cytoplasm during C2C12 myoblast differentiation. Nesprins may function as 'dystrophins of the nucleus' to maintain nuclear organization and structural integrity.
Uniprot ID:	Q8NF91
NCBI:	NP_149062.1
GeneID:	23345
Host:	Rabbit
Immunogen:	Synthetic polypeptide (residues 3212-3226) conjugated to KLH. AA Sequence: GRSTPNRQKTPRGKC
Format:	State: Liquid purified antiserum. Purification: Affinity Chromatography. Buffer System: PBS containing 0.09% Sodium Azide as preservative.
Applications:	Western blot: 1/500-1/750. Immunofluorescence: 1/25-1/50. Immunohistochemistry on Frozen Sections. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts with Nesprin-1 Detects a band of approximately 112 kDa.
Species Reactivity:	Tested: Human.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: 1. Zhang, Q. et al, Journal of Cell Science (2001) 114, 4485-4498.

Pictures: BP4500 Nesprin-1 antibody staining of Nesprin (C1) in C2C12 myoblasts by Immunofluorescence.



BP4500 Nesprin-1 antibody staining of fractionated Human Vascular Smooth Muscle Cells (HVSMC) by Western Blot. This antibody recognizes a number of different Nesprin-1 isoforms including the 112 kDa band of Nesprin-1 alpha Cytoplasmic (Cyto) Nuclear soluble (NS) Nuclear envelope (NE)

