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Rabbit Anti-Synaptopodin 2 antibody

SL8743R

Product Name:	Synaptopodin 2
Chinese Name:	突触足蛋白2抗体
Alias:	DKFZp686G051; Genethonin 2; Genethonin-2; Myopodin; striated muscle specific; Synaptopodin-2; SYNP2_HUMAN; SYNPO 2; Synpo2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	117kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Synaptopodin 2:601-700/1093
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
Storage:	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
Product Detail:	SYNPO2 (Synaptopodin 2) is a Protein Coding gene. Diseases associated with SYNPO2 include Duchenne Muscular Dystrophy and Myopathy, Myofibrillar, 2. GO annotations related to this gene include actin binding and muscle alpha-actinin binding. An important paralog of this gene is SYNPO2L. **Function:**

	Has an actin-binding and actin-bundling activity. Can induce the formation of F-actin networks in an isoform-specific manner (PubMed:24005909, PubMed:23225103). At the sarcomeric Z lines is proposed to act as adapter protein that links nascent myofibers to the sarcolemma via ZYX and may play a role in early assembly and stabilization of the Z lines. Involved in autophagosome formation. May play a role in chaperone-assisted selective autophagy (CASA) involved in Z lines maintenance in striated muscle under mechanical tension; may link the client-processing CASA chaperone machinery to a membrane-tethering and fusion complex providing autophagosome membranes (By similarity). Involved in regulation of cell migration (PubMed:22915763, PubMed:25883213). May be a tumor suppressor (PubMed:16885336). **Subcellular Location:** Nucleus. Cytoplasm. Shuttles between the nucleus and the cytoplasm in a differentiation-dependent and stress-induced fashion. Localizes to the Z-disk in mature striated muscle. The nuclear export is XPO1-dependent (By similarity). Localized in a fiber-like pattern. partly overlapping with filamentous actin. **Tissue Specificity:** Skeletal muscle-specific. **DISEASE:** Down-regulated in muscle cell lines derived from patients with Duchenne muscular dystrophy (DMD). **Similarity:** Belongs to the synaptopodin family. Contains 1 PDZ (DHR) domain. **SWISS:** Q9UMS6 **Gene ID:** 171024 **Database links:** Entrez Gene: 171024 Human Entrez Gene: 118449 Mouse Entrez Gene: 499702 Rat SwissProt: Q9UMS6 Human SwissProt: Q91YE8 Mouse

	Unigene: 655519 Human Unigene: 317009 Mouse Unigene: 34359 Mouse Unigene: 474733 Mouse **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.