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Rabbit Anti-14-3-3 sigma/MKRN3 antibody

SL12422R

Product Name:	14-3-3 sigma/MKRN3
Chinese Name:	14-3-3 sigma抗体
Alias:	14 3 3 protein sigma; 14-3-3 protein sigma; 1433S_HUMAN; Epithelial cell marker protein 1; Er; HME 1; HME1; MGC143283; Mkrn3; Mme1; OTTHUMP00000004242; RP23 137L22.11; SFN; SFN protein; Stratifin; YWHAS.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=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:	28kDa
Cellular localization:	The nucleuscytoplasmicSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human 14-3-3 sigma:101-200/248
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
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:	14-3-3 proteins regulate many cellular processes relevant to cancer biology, notably apoptosis, mitogenic signaling and cell-cycle checkpoints. Seven isoforms, denoted 14-3-3 b, g, e, z, h, q and s, comprise this family of signaling intermediates. 14-3-3 s, also known as SFN, stratifin, HME1 or YWHAS, is a secreted adaptor protein that is involved in regulating both general and specific signaling pathways. Expressed

predominately in stratified squamous keratinising epithelium, 14-3-3 s is able to bind and modify the activity of a large number of proteins, such as KRT17 (Keratin 17), through recognition of a phosphothreonine or phosphoserine motif. When bound to Keratin 17, for example, 14-3-3 s acts to stimulate the Akt/mTOR signaling pathway by upregulating protein synthesis and cell growth. 14-3-3 s also functions to positively mediate IGF-I-induced cell cycle progression and can bind to a variety of translation initiation factors, thus controlling mitotic translation. In response to tumor growth, 14-3-3 s positively regulates the tumor suppressor p53 and increases the rate of p53-regulated inhibition of G2/M cell cycle progression. Multiple isoforms of 14-3-3 s exist due to alternative splicing events.

Function:
Adapter protein implicated in the regulation of a large spectrum of both general and specialized signaling pathways. Binds to a large number of partners, usually by recognition of a phosphoserine or phosphothreonine motif. Binding generally results in the modulation of the activity of the binding partner. When bound to KRT17, regulates protein synthesis and epithelial cell growth by stimulating Akt/mTOR pathway. p53-regulated inhibitor of G2/M progression.

Subunit:
Homodimer. Interacts with KRT17 and SAMSN1 (By similarity). Found in a complex with XPO7, EIF4A1, ARHGAP1, VPS26A, VPS29, VPS35 and SFN. Interacts with GAB2. Interacts with SRPK2. Interacts with COPS6. Interacts with RFWD2; this interaction leads to proteasomal degradation.

Subcellular Location:
Cytoplasm. Nucleus. Secreted. May be secreted by a non-classical secretory pathway.

Tissue Specificity:
Present mainly in tissues enriched in stratified squamous keratinizing epithelium.

Similarity:
Belongs to the 14-3-3 family.

SWISS:
P31947

Gene ID:
2810

Database links:

Entrez Gene: 2810Human

Entrez Gene: 55948Mouse
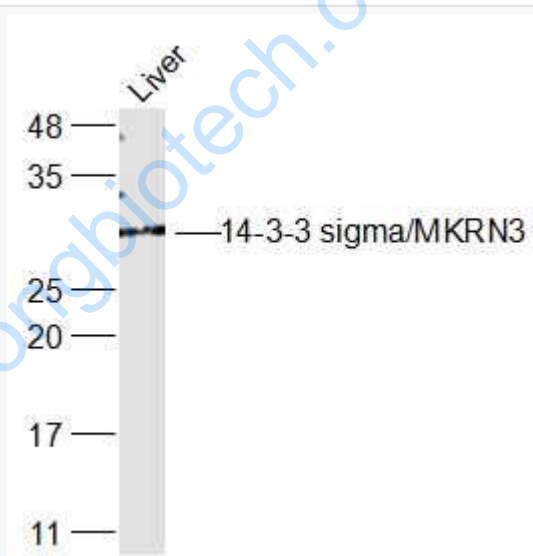
	  Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Picture:	 Sample: Liver(Rat) Cell Lysate at 40 ug Primary: Anti-14-3-3 sigma/MKRN3 (SL12422R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 28 kD Observed band size: 28 kD