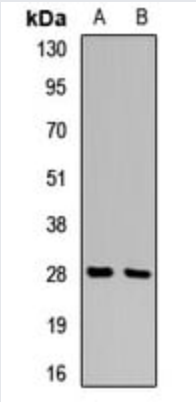
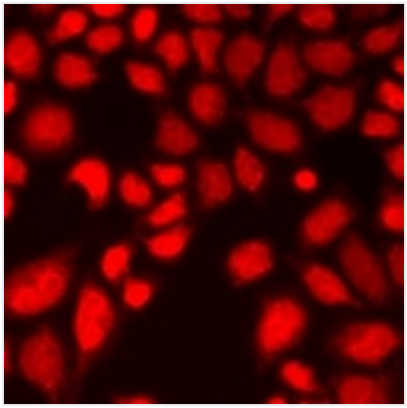
14-3-3 Sigma (14-3-3sigma) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	14-3-3 sigma (14-3-3sigma), Polyclonal Antibody
Full Product Name	Rabbit anti-14-3-3 sigma Antibody
Product Gene Name	anti-14-3-3sigma antibody
Product Synonym Names	HME1; 14-3-3 protein sigma; Epithelial cell marker protein 1; Stratifin
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Purity/Purification	The antibody was purified by immunogen affinity chromatography.
Concentration	1mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C. Avoid repeated freeze/thaw cycles.
Molecular Weight	248
OMIM	601290
3D Structure	ModBase 3D Structure for P31947
Immunogen	Recombinant full length protein of human 14-3-3 sigma
Product Categories/Family for anti-14-3-3sigma antibody	Primary antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-14-3-3sigma antibody	Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunochemistry (IC)
Application Notes for anti-14-3-3sigma antibody	WB: 1:500-1:2000 IHC: 1:50-1:200 IF:IC: 1:50-1:200
Related Product Information for anti-14-3-3sigma antibody	MBS4511368 is an antibody targeting 14-3-3sigma. Also known as Rabbit anti-14-3-3 sigma Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-14-3-3sigma antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-14-3-3sigma antibody
Western blot analysis of 14-3-3 sigma expression in HT29 (A), MCF7 (B) whole cell lysates.



Immunofluorescence (IF) of anti-14-3-3sigma antibody
Immunofluorescent analysis of 14-3-3 sigma staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for 14-3-3sigma. It may not necessarily be applicable to this product.

NCBI GI #	398953
NCBI GeneID	2810
NCBI Accession #	P31947.1
UniProt Primary Accession #	P31947
UniProt Secondary Accession #	O70456
UniProt Related Accession #	P31947
NCBI Official Full Name	14-3-3 protein sigma
NCBI Official Synonym Full Names	stratifin
NCBI Official Symbol	SFN
NCBI Official Synonym Symbols	YWHAS
UniProt Protein Name	14-3-3 protein sigma
UniProt Synonym Protein Names	Epithelial cell marker protein 1; Stratifin
Protein Family	14-3-3 protein
UniProt Gene Name	SFN
UniProt Synonym Gene Names	HME1
UniProt Entry Name	1433S_HUMAN
NCBI Protein Information	14-3-3 protein sigma; 14-3-3 sigma; epithelial cell marker protein 1

UniProt Comments for 14-3-3sigma	14-3-3 sigma: 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. Homodimer. Interacts with KRT17 and SAMSN1. Found in a complex with XPO7, EIF4A1, ARHGAP1, VPS26A, VPS29, VPS35 and SFN. Interacts with GAB2. Interacts with SRPK2. Present mainly in tissues enriched in stratified squamous keratinizing epithelium. Belongs to the 14-3-3 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 1p36.11 Cellular Component: extracellular space; cytoplasmic vesicle membrane; cytoplasm; nucleus; cytosol Molecular Function: protein kinase C inhibitor activity; protein domain specific binding; protein binding; phosphoprotein binding; protein kinase binding Biological Process: positive regulation of protein export from nucleus; regulation of epidermal cell division; release of cytochrome c from mitochondria; DNA damage response, signal transduction resulting in induction of apoptosis; apoptosis; keratinization; positive regulation of epidermal cell differentiation; negative regulation of protein kinase activity; regulation of cyclin-dependent protein kinase activity; negative regulation of caspase activity; signal transduction; positive regulation of cell growth
Research Articles on 14-3-3sigma	**1.** 14-3-3sigma alone or combined with HSP70 are potential prognostic biomarkers for HCC
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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