F-Actin-Capping Protein Subunit Alpha-2 (CAPZA2) ELISA Kit for Sheep

PRODUCT OVERVIEW

Product Name	F-actin-capping protein subunit alpha-2 (CAPZA2), ELISA Kit
Full Product Name	Sheep F-actin-capping protein subunit alpha-2 (CAPZA2) ELISA Kit
Product Gene Name	CAPZA2 elisa kit
Species Reactivity	Sheep
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	19,775 Da
OMIM	601571
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for CAPZA2 elisa kit	Signal Transduction
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for CAPZA2 elisa kit	MBS7236830 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the F-actin-capping protein subunit alpha-2 (CAPZA2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing CAPZA2. The ELISA analytical biochemical technique of the MBS7236830 kit is based on CAPZA2 antibody-CAPZA2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CAPZA2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CAPZA2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of CAPZA2 elisa kit 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CAPZA2. It may not necessarily be applicable to this product.

NCBI GI #	5453599
NCBI GeneID	830
NCBI Accession #	NP_006127.1
UniProt Secondary Accession #	B4DG50
UniProt Related Accession #	P47755
GenBank Nucleotide #	NM_006136.2
NCBI Official Full Name	F-actin-capping protein subunit alpha-2
NCBI Official Synonym Full Names	capping protein (actin filament) muscle Z-line, alpha 2

NCBI Official Symbol	CAPZA2
NCBI Official Synonym Symbols	CAPZ; CAPPA2
UniProt Protein Name	F-actin-capping protein subunit alpha-2
UniProt Synonym Protein Names	CapZ alpha-2
Protein Family	F-actin-capping protein
UniProt Gene Name	CAPZA2
UniProt Entry Name	CAZA2_HUMAN
NCBI Protein Information	F-actin-capping protein subunit alpha-2; capZ alpha-2; F-actin capping protein alpha-2 subunit
NCBI Summary for CAPZA2	The protein encoded by this gene is a member of the F-actin capping protein alpha subunit family. It is the alpha subunit of the barbed-end actin binding protein Cap Z. By capping the barbed end of actin filaments, Cap Z regulates the growth of the actin filaments at the barbed end. [provided by RefSeq, Jul 2008]
UniProt Comments for CAPZA2	CAPZA2: F-actin-capping proteins bind in a Ca(2+)-independent manner to the fast growing ends of actin filaments (barbed end) thereby blocking the exchange of subunits at these ends. Unlike other capping proteins (such as gelsolin and severin), these proteins do not sever actin filaments. Belongs to the F-actin-capping protein alpha subunit family. Protein type: Cytoskeletal; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 7q31.2-q31.3 Cellular Component: cortical cytoskeleton; F-actin capping protein complex; membrane; extracellular region; cytosol; actin cytoskeleton Molecular Function: actin binding Biological Process: innate immune response; protein complex assembly; barbed-end actin filament capping; cell motility; blood coagulation
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