Alpha-Crosslaps (alphaCTx) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Alpha-Crosslaps (alphaCTx), ELISA Kit
Full Product Name	Mouse Alpha-Crosslaps ELISA Kit
Product Gene Name	alphaCTx elisa kit
Species Reactivity	Mouse
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	278,303 Da
3D Structure	ModBase 3D Structure for P13395
Related Product Information for alphaCTx elisa kit	MBS062853 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Alpha-Crosslaps (alphaCTx) 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 alphaCTx. The ELISA analytical biochemical technique of the MBS062853 kit is based on alphaCTx antibody-alphaCTx antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect alphaCTx antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, alphaCTx. 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 alphaCTx 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 alphaCTx. It may not necessarily be applicable to this product.

NCBI GI #	442629562
NCBI GeneID	38231
NCBI Accession #	NP_001261288.1
UniProt Primary Accession #	P13395
UniProt Secondary Accession #	Q26340; Q3KN50; Q8SZW7; Q9W085
UniProt Related Accession #	P13395
GenBank Nucleotide #	NM_001274359.1
NCBI Official Full Name	alpha spectrin, isoform D
NCBI Official Synonym Full Names	alpha Spectrin
NCBI Official Symbol	alpha-Spec
NCBI Official Synonym Symbols	3A9; alfa-Spec; alpha; alpha-Sp; alpha-Spc; alpha-Spe; alpha-spec; alpha-SPEC; alpha-Spect; alpha-spectrin; alpha-Spectrin; alphaSp; alphaSpec; alphaSpectrin; anon-EST:fe2E2; CG1977; DmelCG1977; dre3; FBtr0072789; FCP-B; klo; l(3)04276; l(3)62Bd; l(3)alph
UniProt Protein Name	Spectrin alpha chain
UniProt Gene Name	alpha-Spec
UniProt Synonym Gene Names	SPEC-A

UniProt Entry Name	SPTCA_DROME
NCBI Protein Information	CG1977 gene product from transcript CG1977-RA; CG1977-PA; CG1977-PB; CG1977-PC; CG1977-PD; aSpc 3A9; alpha spectrin; alpha-SPECTRIN; alpha-Spec-PA; alpha-Spec-PB; alpha-Spec-PC; alpha-Spec-PD; alpha-spectrin II; alphaSpectrin; anon-fast-evolving-2E2; klotzchen
UniProt Comments for alphaCTx	Function: Spectrin is the major constituent of the cytoskeletal network underlying the erythrocyte plasma membrane. It associates with band 4.1 and actin to form the cytoskeletal superstructure of the erythrocyte plasma membrane. Essential for larval survival and development. Stabilizes cell to cell interactions that are critical for the maintenance of cell shape and subcellular organization within embryonic tissues. Lva and spectrin may form a Golgi-based scaffold that mediates interaction of Golgi bodies with microtubules and facilitates Golgi-derived membrane secretion required for the formation of furrows during cellularization. Ref.5 Ref.7 Ref.8 Subunit structure: Native spectrin molecule is a tetramer composed of two antiparallel heterodimers joined head to head so that each end of the native molecule includes the C-terminus of the alpha subunit and the N-terminus of the beta subunit. Interacts with calmodulin in a calcium-dependent manner, interacts with F-actin and also interacts with Lva. Interacts with Ten-m. Ref.8 Ref.13 Subcellular location: Cytoplasm › cytoskeleton. Golgi apparatus. Note: Near the inner surface of the plasma membrane of nearly all cells. Lva-alpha-spectrin complexes are found at the Golgi. Ref.8 Tissue specificity: A substantial pool of maternal protein in the egg undergoes dynamic changes in distribution early in embryogenesis. In gastrulated embryo, the highest level of protein is found in the respiratory tract cells and the lowest in parts of the forming gut. Ref.9 Developmental stage: Expressed both maternally and zygotically. Miscellaneous: Its transcript shares the first untranslated exon with the dlt transcript, suggesting a common regulation. Sequence similarities: Belongs to the spectrin family.Contains 2 EF-hand domains.Contains 1 SH3 domain.Contains 22 spectrin repeats. Sequence caution: The sequence AAL39886.1 differs from that shown. Reason: Erroneous initiation. Translation N-terminally extended.The sequence ABA81823.1 differs from that shown. Reason: Frameshift at position 1549.
Research Articles on alphaCTx	**1.** Model in which alphabeta-spectrin directly couples lipid uptake at the plasma membrane to lipid droplet growth in the cytoplasm. In contrast, strong overexpression of beta-spectrin caused fat body atrophy and larval lethality.
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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