Casein Beta (CSN2) ELISA Kit for Canine

PRODUCT OVERVIEW

Product Name	Casein Beta (CSN2), ELISA Kit
Full Product Name	Canine Casein Beta ELISA Kit
Product Gene Name	CSN2 elisa kit
Species Reactivity	Canine
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	24,942 Da
OMIM	115441
3D Structure	ModBase 3D Structure for P67870
Related Product Information for CSN2 elisa kit	MBS097367 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Casein Beta (CSN2) 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 CSN2. The ELISA analytical biochemical technique of the MBS097367 kit is based on CSN2 antibody-CSN2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CSN2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CSN2. 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 CSN2 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 CSN2. It may not necessarily be applicable to this product.

NCBI GI #	23503295
NCBI GeneID	1460
NCBI Accession #	NP_001311.3
UniProt Primary Accession #	P67870
UniProt Secondary Accession #	P07312; P13862; Q4VX47; B0UXA9
UniProt Related Accession #	P67870
GenBank Nucleotide #	NM_001320.6
NCBI Official Full Name	casein kinase II subunit beta isoform 1
NCBI Official Synonym Full Names	casein kinase 2, beta polypeptide
NCBI Official Symbol	CSNK2B
NCBI Official Synonym Symbols	G5A; CK2B; CK2N; CSK2B
UniProt Protein Name	Casein kinase II subunit beta
UniProt Synonym Protein Names	Phosvitin; Protein G5a
Protein Family	Beta-casein

UniProt Gene Name	CSNK2B
UniProt Synonym Gene Names	CK2N; G5A; CK II beta
UniProt Entry Name	CSK2B_HUMAN
NCBI Protein Information	casein kinase II subunit beta; phosvitin; CK II beta; protein G5a; CSNK2B-LY6G5B-532; CSNK2B-LY6G5B-560; Casein kinase II beta subunit; alternative name: G5a, phosvitin; chimera CSNK2B-LY6G5B splicing isoform 532; chimera CSNK2B-LY6G5B splicing isoform 560; casein kinase II b subunit splicing isoform 318; casein kinase II b subunit splicing isoform 660; casein kinase II b subunit splicing isoform 806
NCBI Summary for CSN2	This gene encodes the beta subunit of casein kinase II, a ubiquitous protein kinase which regulates metabolic pathways, signal transduction, transcription, translation, and replication. The enzyme is composed of three subunits, alpha, alpha prime and beta, which form a tetrameric holoenzyme. The alpha and alpha prime subunits are catalytic, while the beta subunit serves regulatory functions. The enzyme localizes to the endoplasmic reticulum and the Golgi apparatus. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2013]
UniProt Comments for CSN2	CK2B: a regulatory subunit of the casein kinase 2 holoenzyme. Exists as a tetramer composed of two catalytic subunits, alpha and alpha-prime, and two regulatory beta subunits. The beta subunits undergo autophosphorylation. Plays a complex role in regulating the basal catalytic activity of the alpha subunit. Participates in Wnt signaling Protein type: Protein kinase, regulatory subunit Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: cytoplasm; plasma membrane; protein kinase CK2 complex; PcG protein complex; nucleus; cytosol Molecular Function: protein serine/threonine kinase activity; protein domain specific binding; identical protein binding; protein binding; metal ion binding; protein kinase regulator activity; transcription factor binding; receptor binding Biological Process: negative regulation of cell proliferation; axon guidance; positive regulation of activin receptor signaling pathway; Wnt receptor signaling pathway; cellular protein complex assembly; regulation of DNA binding; adiponectin-mediated signaling pathway; mitotic cell cycle; regulation of protein kinase activity; negative regulation of blood vessel endothelial cell migration; signal transduction; protein amino acid phosphorylation
Research Articles on CSN2	**1.** ARKL1 binds CK2beta through the KSSR motif and this involves a polyserine sequence resembling the CK2beta binding sequence in EBNA1.
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.