Keratin 4 (KRT4) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Keratin 4 (KRT4), ELISA Kit
Full Product Name	Mouse Keratin 4 (KRT4) ELISA Kit
Product Gene Name	KRT4 elisa kit
Species Reactivity	Mouse
Preparation and Storage	Store at 2-8 degree C. The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.
Molecular Weight	57,285 Da
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
Reproducibility	Intra-Assay: CV<10% Inter-Assay: CV<15%
Reactivity Note	No significant cross-reactivity or interference between this antigen and analogues was observed. NOTE: Limited by current skills and knowledge, it is impossible for us to complete the cross-reactivity detection, therefore, cross reaction may still exist in some cases.
Product Categories/Family for KRT4 elisa kit	Tags & Cell Markers; Signal transduction
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for KRT4 elisa kit	This ELISA kit is a 1.5 hour solid-phase ELISA designed for the quantitative determination of the targets.
Other Notes	Small volumes of KRT4 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.
Searchable Terms for KRT4 purchase	MBS7256169 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Keratin 4 (KRT4) 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 KRT4. The ELISA analytical biochemical technique of the MBS7256169 kit is based on KRT4 antibody-KRT4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect KRT4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, KRT4. 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(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for KRT4. It may not necessarily be applicable to this product.

NCBI GI #	119617053
NCBI GeneID	3851
NCBI Accession #	EAW96647.1
UniProt Secondary Accession #	Q6GTR8; Q96LA7; Q9BTL1; F8VS64
UniProt Related Accession #	P19013

NCBI Official Full Name	keratin 4
NCBI Official Synonym Full Names	keratin 4
NCBI Official Symbol	KRT4
NCBI Official Synonym Symbols	K4; CK4; CK-4; CYK4; WSN1
UniProt Protein Name	Keratin, type II cytoskeletal 4
UniProt Synonym Protein Names	Cytokeratin-4; CK-4; Keratin-4; K4; Type-II keratin Kb4
Protein Family	Keratin
UniProt Gene Name	KRT4
UniProt Synonym Gene Names	CYK4; CK-4; K4
NCBI Protein Information	keratin, type II cytoskeletal 4
NCBI Summary for KRT4	The protein encoded by this gene is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. This type II cytokeratin is specifically expressed in differentiated layers of the mucosal and esophageal epithelia with family member KRT13. Mutations in these genes have been associated with White Sponge Nevus, characterized by oral, esophageal, and anal leukoplakia. The type II cytokeratins are clustered in a region of chromosome 12q12-q13. [provided by RefSeq, Jul 2008]
UniProt Comments for KRT4	MiscellaneousThere are two types of cytoskeletal and microfibrillar keratin: I (acidic; 40-55 kDa) and II (neutral to basic; 56-70 kDa).
Research Articles on KRT4	**1.** The aim of the study was to determine whether KRT4 or KRT13 gene mutation was the molecular basis of oral white sponge nevus. Deletion in the KRT4 gene was found to be a common polymorphism reflecting a high allele frequency of 31.25% in the Turkish population
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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