# Calmodulin-Like Protein 5 (CALML5) ELISA Kit for Chicken

## PRODUCT OVERVIEW

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| **Product Name** | Calmodulin-like protein 5 (CALML5), ELISA Kit |
| **Full Product Name** | Chicken Calmodulin-like protein 5 (CALML5) ELISA Kit |
| **Product Gene Name** | CALML5 elisa kit |
| **Species Reactivity** | Chicken |
| **Samples** | Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate |
| **Preparation and Storage** | Store all reagents at 2-8 degree C. |
| **Molecular Weight** | 15,893 Da |
| **OMIM** | 605183 |
| **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 |
| **ISO Certification** | Manufactured in an ISO 13485:2016 Certified Laboratory. |
| **Related Product Information for CALML5 elisa kit** | MBS7251817 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Calmodulin-like protein 5 (CALML5) 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 CALML5. The ELISA analytical biochemical technique of the MBS7251817 kit is based on CALML5 antibody-CALML5 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect CALML5 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, CALML5. 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 CALML5 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 CALML5. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 223278387 |
| **NCBI GeneID** | 51806 |
| **NCBI Accession #** | NP_059118.2 |
| **UniProt Secondary Accession #** | Q5SQI3; Q8IXU8 |
| **UniProt Related Accession #** | Q9NZT1 |
| **GenBank Nucleotide #** | NM_017422.4 |
| **NCBI Official Full Name** | calmodulin-like protein 5 |
| **NCBI Official Synonym Full Names** | calmodulin-like 5 |
| **NCBI Official Symbol** | CALML5 |
| **NCBI Official Synonym Symbols** | CLSP |
| **UniProt Protein Name** | Calmodulin-like protein 5 |

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| **UniProt Synonym Protein Names** | Calmodulin-like skin protein |
| **UniProt Gene Name** | CALML5 |
| **UniProt Synonym Gene Names** | CLSP |
| **UniProt Entry Name** | CALL5_HUMAN |
| **NCBI Protein Information** | calmodulin-like protein 5; calmodulin-like skin protein |
| **NCBI Summary for CALML5** | This gene encodes a novel calcium binding protein expressed in the epidermis and related to the calmodulin family of calcium binding proteins. Functional studies with recombinant protein demonstrate it does bind calcium and undergoes a conformational change when it does so. Abundant expression is detected only in reconstructed epidermis and is restricted to differentiating keratinocytes. In addition, it can associate with transglutaminase 3, shown to be a key enzyme in the terminal differentiation of keratinocytes. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for CALML5** | CALML5: Binds calcium. May be involved in terminal differentiation of keratinocytes.<br><br>Protein type: Calcium-binding<br><br>Chromosomal Location of Human Ortholog: 10p15.1<br><br>Molecular Function: calcium ion binding<br><br>Biological Process: epidermis development; signal transduction |
| **Research Articles on CALML5** | **1.** CLSP is increased in the upper epidermis in exacerbated atopic dermatitis as compared to non-exacerbated atopic dermatitis and normal skin, revealing a role in re-establishing the epidermal barrier |
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| **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. |

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