# Mouse Irak2 Antibody (C-Term) Blocking Peptide

## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | Irak2, Blocking Peptide |
| **Full Product Name** | Mouse Irak2 Antibody (C-term) Blocking Peptide |
| **Product Gene Name** | Irak2 blocking peptide |
| **Product Synonym Names** | Interleukin-1 receptor-associated kinase-like 2; IRAK-2; mu-IRAK-2; Irak2 |
| **Form/Format** | Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml. |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C. |
| **Antibody/Peptide Pairs** | Irak2 peptide (MBS9221474) is used for blocking the activity of Irak2 antibody (MBS9210020) |
| **Molecular Weight** | 52,463 Da |
| **Tissue Location** | Ubiquitously expressed, with a higher expression observed in brain, spleen and liver. Isoform 1 and isoform 2 are considered agonist and isoform 3 and isoform 4 are considered antagonist |
| **Related Product Information for Irak2 blocking peptide** | Binds to the IL-1 type I receptor following IL-1 engagement, triggering intracellular signaling cascades leading to transcriptional up-regulation and mRNA stabilization. |
| **Other Notes** | Small volumes of Irak2 blocking peptide 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 Irak2 purchase** | MBS9221474 is a blocking peptide targeting Irak2. Also known as Mouse Irak2 Antibody (C-term) Blocking Peptide. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Irak2. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 81866246 |
| **NCBI GeneID** | 108960 |
| **NCBI Accession #** | Q8CFA1.2 |
| **UniProt Primary Accession #** | Q8CFA1 |
| **UniProt Secondary Accession #** | Q3U3K2; Q3U7F5; Q3UFX2; Q5U404; Q6YBR8; Q6YBR9; Q6YBS0; Q6YBS1; Q8C5M0; Q8CC82; Q8CEA0 |
| **UniProt Related Accession #** | Q8CFA1 |
| **NCBI Official Full Name** | Interleukin-1 receptor-associated kinase-like 2 |
| **NCBI Official Synonym Full Names** | interleukin-1 receptor-associated kinase 2 |
| **NCBI Official Symbol** | Irak2 |
| **NCBI Official Synonym Symbols** | IRAK-2; AI649099; 6330415L08Rik |
| **UniProt Protein Name** | Interleukin-1 receptor-associated kinase-like 2 |
| **Protein Family** | Interleukin-1 receptor-associated kinase |
| **UniProt Gene Name** | Irak2 |
| **UniProt Synonym Gene Names** | IRAK-2; mu-IRAK-2 |

| | |
|---|---|
| **UniProt Entry Name** | IRAK2_MOUSE |
| **NCBI Protein Information** | interleukin-1 receptor-associated kinase-like 2 |
| **UniProt Comments for Irak2** | IRAK2: Binds to the IL-1 type I receptor following IL-1 engagement, triggering intracellular signaling cascades leading to transcriptional up-regulation and mRNA stabilization. Interacts with MYD88. IL-1 stimulation leads to the formation of a signaling complex which dissociates from the IL-1 receptor following the binding of PELI1. Expressed in spleen, thymus, prostate, lung, liver, skeletal muscle, kidney, pancreas and peripheral blood leukocytes. Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Pelle subfamily.<br><br>Protein type: Kinase, protein; Protein kinase, TKL; Protein kinase, Ser/Thr (non-receptor); TKL group; IRAK family<br><br>Cellular Component: cytoplasm; nucleus<br><br>Molecular Function: protein binding; protein heterodimerization activity; protein homodimerization activity; protein kinase activity; protein serine/threonine kinase activity<br><br>Biological Process: activation of NF-kappaB transcription factor; activation of NF-kappaB-inducing kinase; inhibition of NF-kappaB transcription factor; lipopolysaccharide-mediated signaling pathway; negative regulation of transcription factor activity; protein amino acid autophosphorylation; regulation of apoptosis; regulation of cytokine and chemokine mediated signaling pathway; toll-like receptor signaling pathway |
| **Research Articles on Irak2** | **1.** These findings demonstrate an unexpected linkage of the innate immunity machinery to unfolded protein response signaling, revealing IRAK2 as a novel amplifier of the IRE1 pathway. |
| **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.<br><br>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.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/irak2/9221474