

## Product datasheet for PH304869

### IRAK (IRAK1) (NM\_001025243) Human Mass Spec Standard

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Mass Spec Standards  |
| Description:                          | IRAK1 MS Standard C13 and N15-labeled recombinant protein (NP_001020414) |
| Species:                              | Human  |
| Expression Host:                      | HEK293   |
| Expression cDNA Clone or AA Sequence: | RC204869   |
| Predicted MW:                         | 68 kDa   |
| Protein Sequence:                     | >RC204869 protein sequence<br>Red=Cloning site Green=Tags(s)             |

MAGGPGGPEPAAPGAQHFLYEVPWVMCRFYKVMDALEPADWCQFAALIVRDQTELRRCERSGQRTASVL  
WPWINRNARVADLVHILTHLQLLRARDIITAWHPPAPLPSPGTTAPRPSSIPAPAEAEAWSRKLPSAS  
TFLSPAFFPGSQTHSGPELGLVPSASLWPPPPSPASSTKPGPESSVSLQGARSPFCWPLCEISRGT  
NFSEELKIGEGGFVCYRAVMRNTVYAVKRLKENADLEWTAVKQSFLTEVEQLSRFRHPNIVDFAGYCAQ  
NGFYCLVYGFLPNGSLEDRLHCQTQACPLSWPQRLDILLGTARAIQFLHQDPSLIHGDIKSSNVLLDE  
RLTPKLGDFGLARFSRFAGSSPSQSSMVARTQTVRGTLAYLPEEYIKTGRLAVDTDTFSFGVVVLETLG  
QRAVKTHGARTKYL VYERLEKLA VVAGVPGHLEAASCIPPSPQENSYVSTGRAHSGAAPWQPLAAPSG  
ASAQAAEQLRGPNQPVESDES L GGL SAALRSWHLTPSCPLDPAPLREAGCPQGD TAGESSWGSGPGSRP  
TAVEGLALGSSASSSSEPPQIIINPARQKMVQKLALYEDGALDSLQLLSSSSLPLGLEQDRQGPEESDE  
FQS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

|                  |  |
|------------------|--|
| Tag:             | C-Myc/DDK  |
| Purity:          | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| Concentration:   | >0.05 µg/µL as determined by microplate BCA method   |
| Labeling Method: | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine                       |
| Buffer:          | 25 mM Tris-HCl, 100 mM glycine, pH 7.3   |
| Storage:         | Store at -80°C. Avoid repeated freeze-thaw cycles.   |
| Stability:       | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| RefSeq:          | <a href="#">NP_001020414</a>   |
| RefSeq Size:     | 3352   |



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RefSeq ORF: 1899

Synonyms: IRAK; pelle

Locus ID: 3654

UniProt ID: [P51617](#)

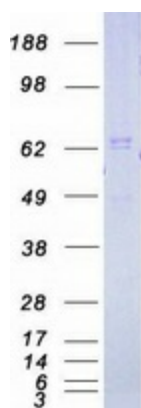
Cytogenetics: Xq28

**Summary:** This gene encodes the interleukin-1 receptor-associated kinase 1, one of two putative serine/threonine kinases that become associated with the interleukin-1 receptor (IL1R) upon stimulation. This gene is partially responsible for IL1-induced upregulation of the transcription factor NF-kappa B. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Protein Kinase, Transcription Factors

**Protein Pathways:** Apoptosis, Neurotrophin signaling pathway, Toll-like receptor signaling pathway

### Product images:



Coomassie blue staining of purified IRAK1 protein (Cat# [TP304869]). The protein was produced from HEK293T cells transfected with IRAK1 cDNA clone (Cat# [RC204869]) using MegaTran 2.0 (Cat# [TT210002]).