

Product datasheet for TP507322

Irak4 (NM_029926) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse interleukin-1 receptor-associated kinase 4 (Irak4), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR207322 protein sequence Red =Cloning site Green =Tags(s)

MNKPLTPSTYIRNLNVGILRKLSDFIDPQEGWKKLAVAIKKPSGDDRYNQFHIRRFEALLQTGKSPTCEL
LFDWGTTNCTVGDLDVLLVQIELFAPATLLLPAVPTVKSLPPREAAATVAQTHGPCQEKDRTSVMPMPK
LEHSCEPPDSSPDNRSVSSDTRFHSFSFHELKSITNNFDEQPASAGGNRMGEGGFVYKGCVNNTIV
AVKKLGAMVEISTEELKQQFDQEIKVMATCQHENVLLGFSSSDSNLCLVYAYMPNGSLLDRLSCLDGT
PPLSWHTRCKVAQGTANGIRFLHENHHIHRDIKSANILLDRDFTAKISDFGLARASARLAQTVMTSRIVG
TTAYMAPEALRGEITPKSDIYSGVVLLELITGLAAVDENREPQLLLDIKEEIEDEKTIEDYTDKMSD
ADPASVEAMYSAASQCLHEKKNRRPDIQKQQLQEMSA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	50.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_084202
Locus ID:	266632



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UniProt ID: [Q8R4K2](#)

RefSeq Size: 2825

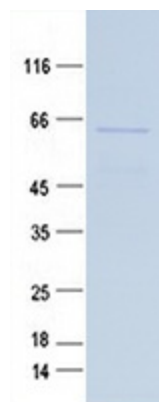
Cytogenetics: 15 E3

RefSeq ORF: 1380

Synonyms: 8430405M07Rik; 9330209D03Rik; IRAK-4; NY-REN-64

Summary: Serine/threonine-protein kinase that plays a critical role in initiating innate immune response against foreign pathogens. Involved in Toll-like receptor (TLR) and IL-1R signaling pathways. Is rapidly recruited by MYD88 to the receptor-signaling complex upon TLR activation to form the Myddosome together with IRAK2. Phosphorylates initially IRAK1, thus stimulating the kinase activity and intensive autophosphorylation of IRAK1. Phosphorylates E3 ubiquitin ligases Pellino proteins (PELI1, PELI2 and PELI3) to promote pellino-mediated polyubiquitination of IRAK1. Then, the ubiquitin-binding domain of IKBKG/NEMO binds to polyubiquitinated IRAK1 bringing together the IRAK1-MAP3K7/TAK1-TRAF6 complex and the NEMO-IKKA-IKKB complex. In turn, MAP3K7/TAK1 activates IKKs (CHUK/IKKA and IKBKB/IKKB) leading to NF-kappa-B nuclear translocation and activation. Alternatively, phosphorylates TIRAP to promote its ubiquitination and subsequent degradation. Phosphorylates NCF1 and regulates NADPH oxidase activation after LPS stimulation suggesting a similar mechanism during microbial infections (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Purified recombinant protein Irak4 was analyzed by SDS-PAGE gel and Coomassie Blue Staining.