

# Recombinant human IRAK4 protein ab79739

2 Images

### Description

<b>Product name</b>	Recombinant human IRAK4 protein
<b>Biological activity</b>	Specific Activity: 18 pmol/min/μg.
<b>Purity</b>	> 95 % SDS-PAGE. Affinity purified.
<b>Expression system</b>	Insect cells
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Tags</b>	GST tag N-Terminus

### Specifications

Our **Abpromise guarantee** covers the use of **ab79739** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Functional Studies SDS-PAGE
<b>Form</b>	Liquid

### Preparation and Storage

<b>Stability and Storage</b>	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.0462% (R*,R*)-1,4-Dimercaptobutan-2,3-diol, 0.395% Tris HCl, 10% Glycerol (glycerin, glycerine), 2.32% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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### General Info

<b>Function</b>	Required for the efficient recruitment of IRAK1 to the IL-1 receptor complex following IL-1
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engagement, triggering intracellular signaling cascades leading to transcriptional up-regulation and mRNA stabilization. Phosphorylates IRAK1.

## Involvement in disease

Defects in IRAK4 are the cause of recurrent isolated invasive pneumococcal disease type 1 (IPD1) [MIM:610799]. Recurrent invasive pneumococcal disease (IPD) is defined as two episodes of IPD occurring at least 1 month apart, whether caused by the same or different serotypes or strains. Recurrent IPD occurs in at least 2% of patients in most series, making IPD the most important known risk factor for subsequent IPD.

Defects in IRAK4 are the cause of IRAK4 deficiency (IRAK4D) [MIM:607676]. IRAK4 deficiency causes extracellular pyogenic bacterial and fungal infections in otherwise healthy children.

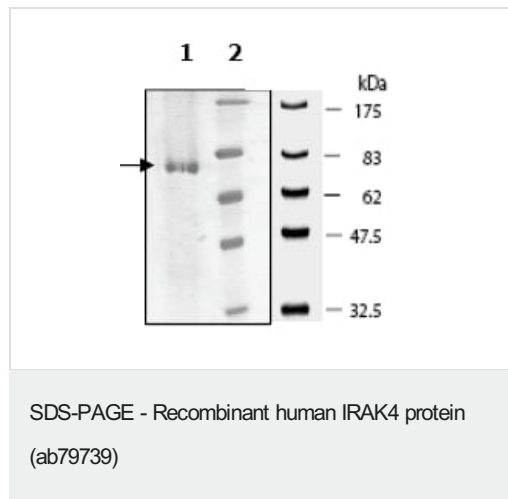
## Sequence similarities

Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. Pelle subfamily.

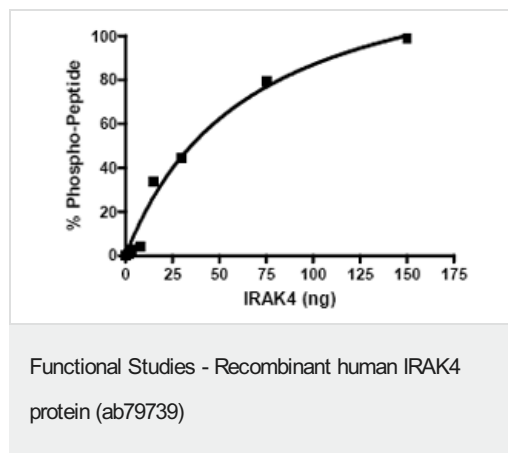
Contains 1 death domain.

Contains 1 protein kinase domain.

## Images



10% SDS-PAGE showing ab79739 at approximately 77.5kDa (4μg).



Kinase assay: Specific activity 18 pmol/min/μg.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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