

# Recombinant human TYK2 protein ab125539

[4 Images](#)

## Description

<b>Product name</b>	Recombinant human TYK2 protein
<b>Biological activity</b>	The specific activity of ab125539 was determined to be 24 nmol/min/mg.
<b>Purity</b>	> 70 % Densitometry. Purity determined to be >70% by densitometry. Affinity purified.
<b>Expression system</b>	Baculovirus infected Sf9 cells
<b>Accession</b>	<b><u>P29597</u></b>
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Predicted molecular weight</b>	110 kDa including tags
<b>Amino acids</b>	442 to 1187

## Specifications

Our **Abpromise guarantee** covers the use of **ab125539** 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>	Western blot Functional Studies SDS-PAGE
<b>Form</b>	Liquid
<b>Additional notes</b>	<b><u>ab204877</u></b> (Poly (4:1 Glu, Tyr) peptide) can be utilized as a substrate for assessing kinase activity

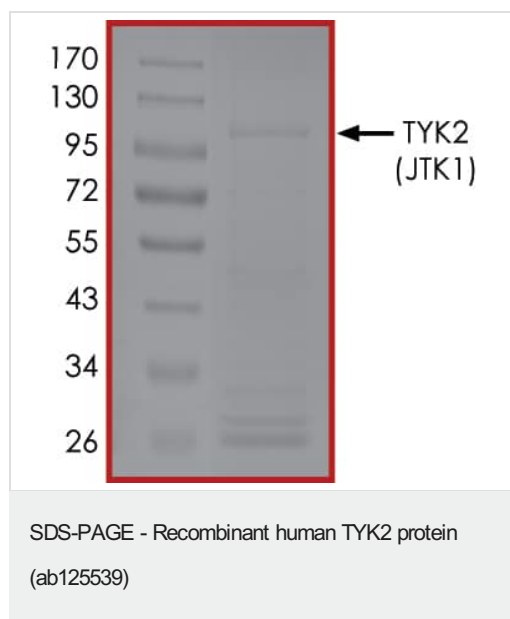
## Preparation and Storage

<b>Stability and Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.31% Glutathione, 0.002% PMSF, 0.004% DTT, 0.79% Tris HCl, 0.003% EDTA, 25% Glycerol (glycerin, glycerine), 0.88% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
------------------------------	---

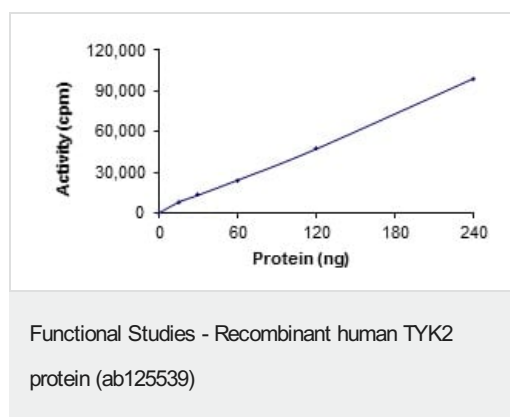
## General Info

<b>Function</b>	Probably involved in intracellular signal transduction by being involved in the initiation of type I IFN signaling. Phosphorylates the interferon-alpha/beta receptor alpha chain.
<b>Tissue specificity</b>	Observed in all cell lines analyzed. Expressed in a variety of lymphoid and non-lymphoid cell lines.
<b>Involvement in disease</b>	Defects in TYK2 are the cause of protein-tyrosine kinase 2 deficiency (TYK2 deficiency) [MIM:611521]; also known as autosomal recessive hyper-IgE syndrome (HIES) with atypical mycobacteriosis. TYK2 deficiency consists of a primary immunodeficiency characterized by recurrent skin abscesses, pneumonia, and highly elevated serum IgE.
<b>Sequence similarities</b>	Belongs to the protein kinase superfamily. Tyr protein kinase family. JAK subfamily. Contains 1 FERM domain. Contains 1 protein kinase domain. Contains 1 SH2 domain.
<b>Domain</b>	The FERM domain mediates interaction with JAKMP1.

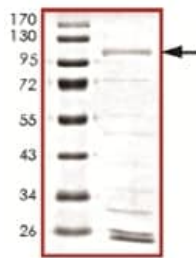
## Images



SDS PAGE analysis of ab125539

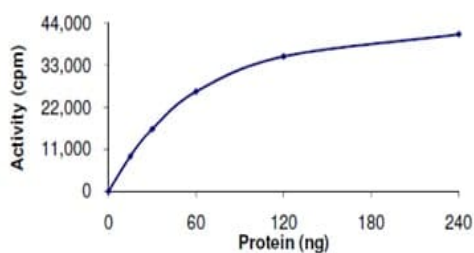


The specific activity of TYK2 (ab125539) was determined to be 20 nmol/min/mg as per activity assay protocol.



SDS-PAGE analysis of ab125539.

SDS-PAGE - Recombinant human TYK2 protein  
(ab125539)



The specific activity of ab125539 was determined to be 24 nmol/min/mg by Kinase Assay.

Functional Studies - Recombinant human TYK2 protein (ab125539)

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

### Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors