

Datasheet for ABIN7217840  
**anti-IL-4 antibody (Internal Region)**



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3 Images

### Overview

Quantity:	100 µL
Target:	IL-4 (IL4)
Binding Specificity:	Internal Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IL-4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

### Product Details

Purpose:	IL-4 Polyclonal Antibody
Immunogen:	Synthesized peptide derived from the Internal region of human IL-4
Isotype:	IgG
Specificity:	IL-4 Polyclonal Antibody detects endogenous levels of IL-4 protein.
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen

### Target Details

Target:	IL-4 (IL4)
Alternative Name:	IL-4 ( <a href="#">IL4 Products</a> )

## Target Details

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**Background:** Rabbit Anti-IL-4 Polyclonal Antibody, IL4, Interleukin-4, IL-4, B-cell stimulatory factor 1, BSF-1, Binetrakin, Lymphocyte stimulatory factor 1, Pitrakinra, Interleukin-4 encoded by IL4 is a pleiotropic cytokine produced by activated T cells. This cytokine is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. This gene, IL3, IL5, IL13, and CSF2 form a cytokine gene cluster on chromosome 5q, with this gene particularly close to IL13. This gene, IL13 and IL5 are found to be regulated coordinately by several long-range regulatory elements in an over 120 kilobase range on the chromosome. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported., Interleukin-4

**Molecular Weight:** observed band 17,34kDa

**Gene ID:** 3565

**UniProt:** [P05112](#)

**Pathways:** [JAK-STAT Signaling](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Proton Transport](#), [Activated T Cell Proliferation](#)

## Application Details

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**Application Notes:** Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:500-1:2000), IHC-P (1:100-1:300), ELISA (1:20000). Not yet tested in other applications.

**Comment:** Primary Antibody

**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Concentration:** 1 mg/mL

**Buffer:** PBS containing 50 % Glycerol, 0.5 % BSA and 0.02 % Sodium Azide.

**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

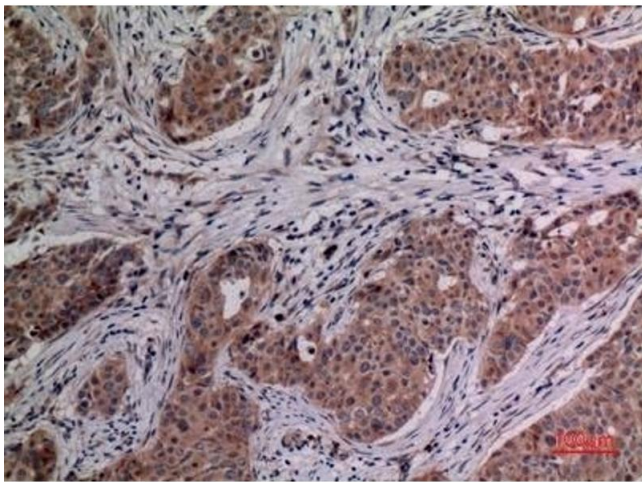
## Handling

should be handled by trained staff only.

Storage: -20 °C

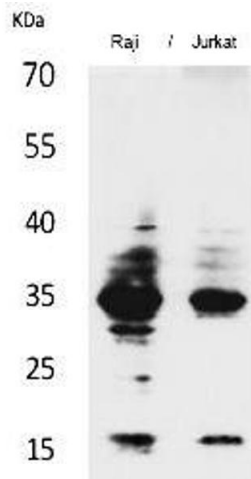
Storage Comment: Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

## Images



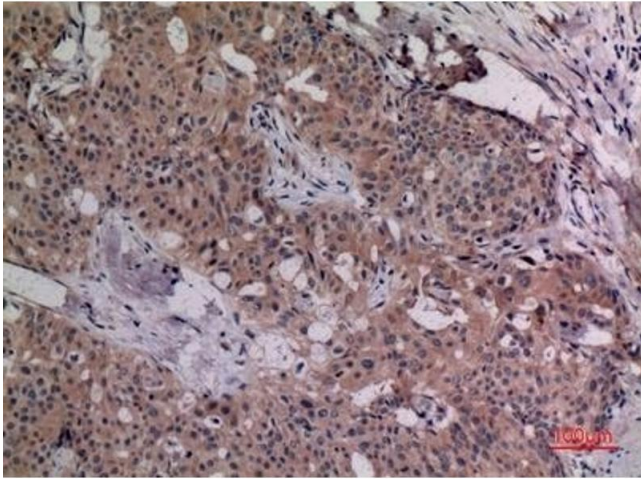
### Immunohistochemistry

**Image 1.** Immunohistochemical analysis of paraffin-embedded human-breast-cancer, antibody was diluted at 1:100.



### Western Blotting

**Image 2.** Western Blot analysis of Raji, Jurkat cells using IL-4 Polyclonal Antibody. Secondary antibody (ABIN7205155) was diluted at 1:20000.



### Immunohistochemistry

**Image 3.** Immunohistochemical analysis of paraffin-embedded human-breast-cancer, antibody was diluted at 1:100.