

**Phospho-Tyk2 (Tyr1054/1055) Rabbit mAb[CP12]**

**Cat NO. :A44709**

**Information:**

Applications	Reactivity:	UniProt ID:	MW(kDa)	Host	Isotype	Size
WB	H	P29597	134	Rabbit	IgG	100ul,200ul

**Applications detail:**

Application	Dilution
WB	1:1000-2000
The optimal dilutions should be determined by the end user	

**Conjugate:**

UnConjugate

**Form:**

Liquid

**sensitivity:**

Endogenous

**Purification:**

Protein A purification

**Specificity:**

Antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr1054 and Tyr1055 of human Tyk2

**Storage buffer and conditions:**

Antibody store in 10 mM PBS, 0.5mg/ml BSA, 50% glycerol (buffer) .

Shipped at 4°C. Store at -20°C or -80°C.

Products are valid for one natural year of receipt. Avoid repeated freeze / thaw cycles.

**Tissue specificity:**

Observed in all cell lines analyzed. Expressed in a variety of lymphoid and non-lymphoid cell lines..

**Subcellular location:**

**Function:**

**Introduction:** **WB:** Western Blot **IP:** Immunoprecipitation **IHC:** Immunohistochemistry **ChIP:** Chromatin Immunoprecipitation **ICC/IF:** Immunocytochemistry/Immunofluorescence **F:** Flow Cytometry

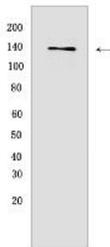
**Cross Reactivity:** **H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Ml:** mink **C:** chicken **Dm** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Hr:** horse

**For Research Use Only. Not For Use In Diagnostic Procedures.**

Non-receptor kinase involved in various processes including cell growth, development, cell migration, innate and adaptive immunity (PubMed:10995743, PubMed:10542297). Plays both structural and catalytic roles in numerous cytokines and interferons signaling (PubMed:10542297). Associates with cytokine and growth factor receptors and activate STAT family members including STAT1, STAT3, STAT4 or STAT6 (PubMed:10542297, PubMed:7638186). The heterodimeric cytokine receptor complexes are composed of a TYK2-associated receptor chain (IFNAR1, IL12RB1, IL10RB or IL13RA1) which serves as the signal transducing chain harboring STAT docking sites once phosphorylated by TYK2, and a second receptor chain associated either with JAK1 or JAK2 (PubMed:10542297, PubMed:7526154, PubMed:25762719). In turn, recruited STATs are phosphorylated, form homo- and heterodimers, translocate to the nucleus, and regulate cytokine/growth factor responsive genes. Negatively regulates STAT3 activity by promoting phosphorylation at a specific tyrosine that differs from the site used for signaling (PubMed:29162862)..

## Validation Data:

### Phospho-Tyk2 (Tyr1054/1055) Rabbit mAb[CP12] Images



Western blot ( SDS PAGE ) analysis of extracts from serum-starved U266 cells, treated with hIFN-  $\alpha$  1 (50 ng/ml, 15 min) ..Using Phospho-Tyk2 (Tyr1054/1055)

View more information on <http://naturebios.com>

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 1% w/v Milk, 1X TBST at 4°C overnight.