

Catalog No. LF-PA0065

POLYCLONAL ANTIBODY



## Anti-STAT2

(Anti-Signal transducer and activator of transcription 2)

member of the STAT family of cytoplasmic transcription factors. STAT members generally mediate cytokine, growth factor and hormone receptor signal transduction. STAT2 is a transcription factor critical to the signal transduction pathway of type I interferons (e.g. IFN $\alpha$ ). STAT2 resides primarily in the cytoplasm and is tyrosine-phosphorylated after IFN $\alpha$  binds to cell surface receptors. In response to tyrosine phosphorylation STAT2 rapidly localizes to the nucleus and acquires the ability to bind specific DNA targets in association with two other proteins, STAT1 and IFN regulatory factor-9 (IRF-9). STAT2 is phosphorylated at Y689 by receptor-associated Janus kinases (JAKs) leading to STAT2 dimerization and subsequent translocation to the nucleus to activate gene transcription.

**Immunogen** : Synthetic peptide

**Host** : Rabbit

**Type** : Purified

**Isotype** : IgG

**Size** : 100  $\mu$ l

**Composition** : PBS containing 50% glycerol

**Positive control** : HeLa cell lysate

**Storage** : Store for 1 year at  $-20^{\circ}\text{C}$  from date of shipment

### Species cross reactivity

Human  
+

Mouse  
NT

Rat  
NT

M.W.(kDa) 1 2 3

175

83

62

47.5

← N.S\*

**Immunoblot Analysis** of cell lysates

Lane 1 : HeLa cell lysate

Lane 2 : K562 cell lysate

Lane 3 : A431 cell lysate

\* N.S : Non-Specific band

### Applications :

Western blotting (1:2,000)

Immunoprecipitation was not tested

### Background Reference :

1)Brierley MM, et al, J Interferon Cytokine Res. 2005; vol.25(12): pp.733-44.

2)Brierley MM, Fish EN. J Biol Chem. 2005; vol.280(13): pp.13029-36.

3)Banninger G, Reich NC. J Biol Chem. 2004; vol.279(38): pp.39199-206.

4)Ihle JN. Curr Opin Cell Biol. 2001; vol.13(2): pp.211-7.

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