**STAT1 Ab**

Cat.#: AF6300  
Concn.: 1mg/ml  
Mol.Wt.: 84kDa  
Size: 100ul,200ul  
Source: Rabbit  
Clonality: Polyclonal

**Application:**  
WB 1:500-1:2000  
IHC 1:50-1:200  
IP, IF/ICC 1:100-1:500

**Reactivity:**  
Human, Mouse, Rat, Monkey

**Purification:**  
The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

**Specificity:**  
STAT1 Ab detects endogenous levels of total STAT1.

**Immunogen:**  
A synthesized peptide derived from human STAT1.

**Uniprot:**  
P42224

**Description:**  
The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators.

**Subcellular Location:**  
Cytoplasm. Nucleus. Translocated into the nucleus in response to IFN-gamma-induced tyrosine phosphorylation and dimerization.

**Similarity:**  
Belongs to the transcription factor STAT family.

**Storage Condition and Buffer:**  
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.

Western blot analysis of extracts from VERO, using STAT1 Ab. The lane on the left was treated with blocking peptide.
IRG1 increases MHC class I level in macrophages through STAT-TAP1 axis depending on NADPH oxidase mediated reactive oxygen species X Liu, XP Wu, XL Zhu, T Li, Y Liu
International Immunopharmacology, 2017 Elsevier

Western blot analysis of STAT1 expression in COLO205 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

AF6300 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.

AF6300 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.