

#### **International Office**

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Research Use Only. Not for diagnostic or therapeutic use.

# EB05073 - Goat Anti-STAT3 (isoform 1 and 2) Antibody

Size: 100µg specific antibody in 200µl



# **Target Protein**

**Principal Names:** STAT3, signal transducer and activator of transcription 3 (acute-phase response factor), APRF, DNA-binding protein APRF, acute-phase response factor,

FLJ20882, MGC16063, HIES Official Symbol: STAT3

Accession Number(s): NP\_003141.2; NP\_644805.1

Human GeneID(s): 6774

Non-Human GenelD(s): 20848 (mouse), 25125 (rat)

Important Comments: This antibody is expected to recognise isoforms 1 and 2 (as

represented by NP\_644805.1 and NP\_003141.2 respectively)

## **Immunogen**

Peptide with sequence DMELTSECATSPM, from the C Terminus of the protein sequence according to NP\_003141.2; NP\_644805.1.

Please note the peptide is available for sale.

## **Purification and Storage**

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

## **Applications Tested**

Peptide ELISA: antibody detection limit dilution 1:16000.

IHC: Paraffin embedded Human Liver. Recommended concentration: 6-7µg/ml.

 $\textbf{Immunofluorescence:} \ \textbf{Strong expression of the protein seen in the Golgi and cytoplasm}$ 

of HeLa and A431 cells. Recommen

Flow Cytometry: Flow cytometric analysis of A431 cells.. Recommended concentration:

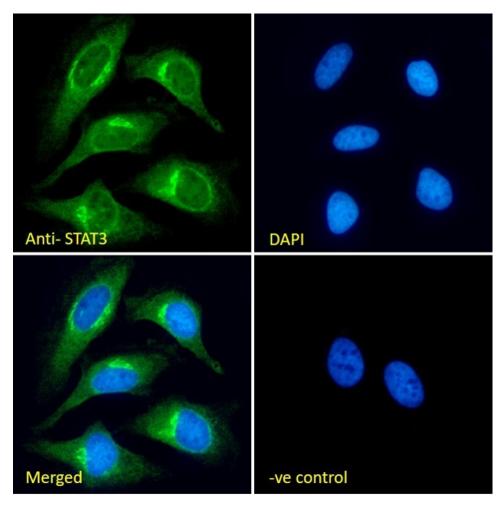
10ug/ml.

ded concentration: 10µg/ml.

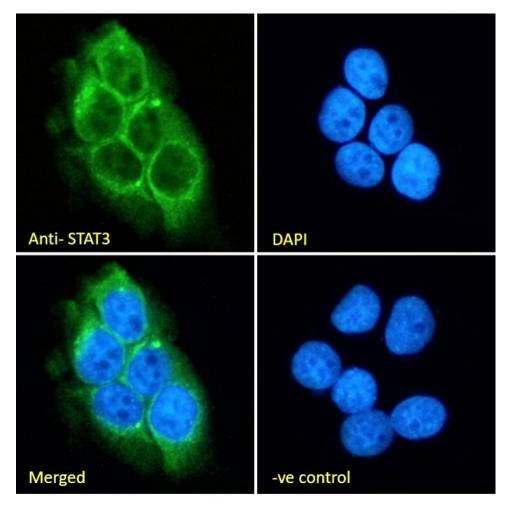
### **Species Reactivity**

Tested: Human

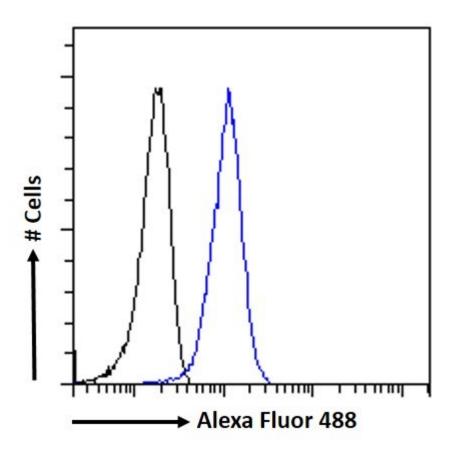
Expected from sequence similarity: Human, Mouse, Rat, Cow



EB05073 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic and Golgi apparatus staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

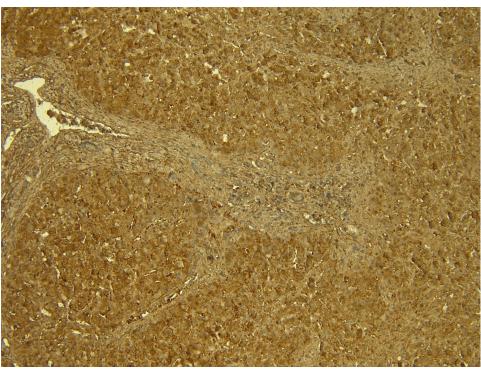


EB05073 Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic and staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

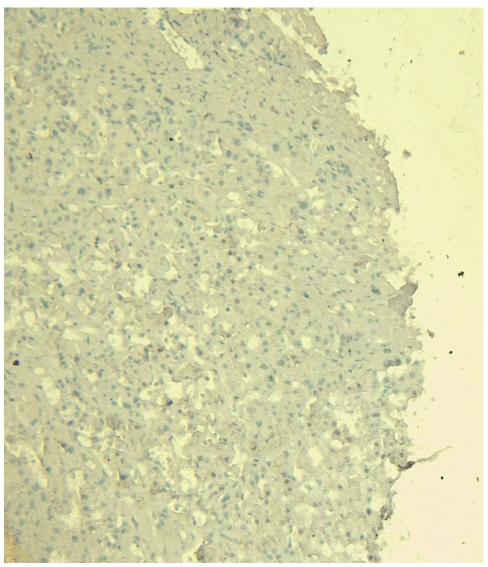


EB05073 Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control:

Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



EB05073 (7µg/ml) staining of paraffin embedded Human Liver. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



 ${\tt EB05073\ Negative\ Control\ showing\ staining\ of\ paraffin\ embedded\ Human\ Liver,\ with\ no\ primary\ antibody.}$