

## [KO Validated] Anti-STAT5b Rabbit pAb

Purified Rabbit Polyclonal Antibody

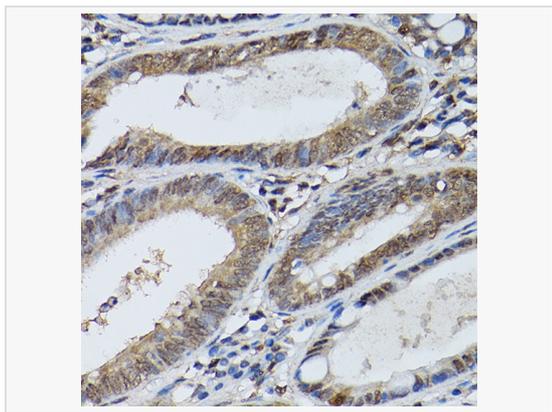
Catalog # P104577

### Product Information

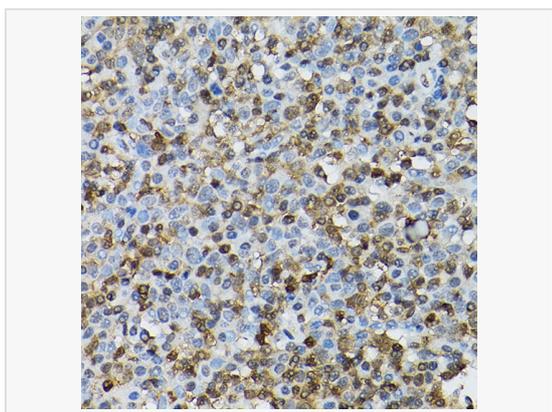
|             |   |
|-------------|---|
| Application | WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, IP, ELISA   |
| Reactivity  | Human, Mouse, Rat   |
| Dilution    | WB 1:500~1:1,000; IHC-P 1:50~1:200; IF 1:50~1:200; IP 0.5μg-4μg antibody for 400μg-600μg extracts of whole cells            |
| Host        | Rabbit  |
| Clonality   | Polyclonal  |
| Isotype     | IgG   |
| Label       | Unconjugated  |
| Immunogen   | Recombinant fusion protein containing a sequence corresponding to amino acids 586-787 of human STAT5B (NP_036580.2).        |
| Format      | Affinity purified polyclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.                     |
| Storage     | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | Anti-STAT5b Rabbit pAb is for research use only and not for use in diagnostic or therapeutic procedures.                    |

### Protein Information

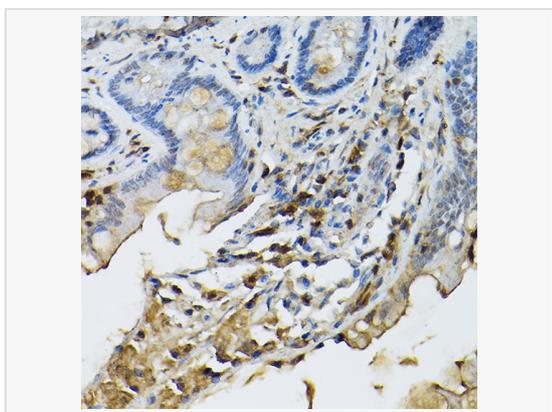
|               |   |
|---------------|---|
| Synonyms      | STAT5; GHISID2; STAT5B.   |
| Calculated MW | Calculated MW: 90 kDa; Observed MW: 92 kDa  |
| Uniprot ID    | P51692  |
| Gene ID       | 6777  |
| Background    | The protein encoded by this gene is a member of the STAT family of transcription factors. 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. This protein mediates the signal transduction triggered by various cell ligands, such as IL2, IL4, CSF1, and different growth hormones. It has been shown to be involved in diverse biological processes, such as TCR signaling, apoptosis, adult mammary gland development, and sexual dimorphism of liver gene expression. This gene was found to fuse to retinoic acid receptor-alpha (RARA) gene in a small subset of acute promyelocytic leukemias (APLL). The dysregulation of the signaling pathways mediated by this protein may be the cause of the APLL. |



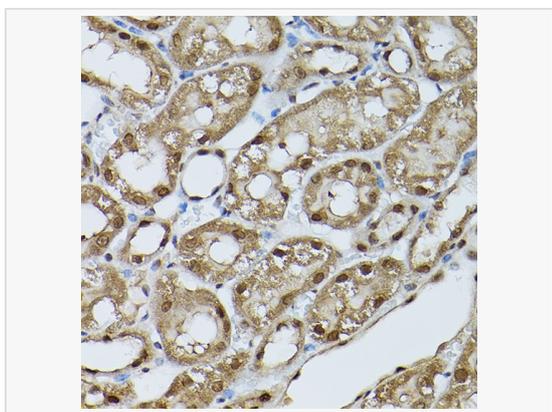
Immunohistochemistry analysis of paraffin-embedded Human colon carcinoma using [KO Validated] STAT5B Rabbit pAb (P104577) at dilution of 1:100 (40× lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



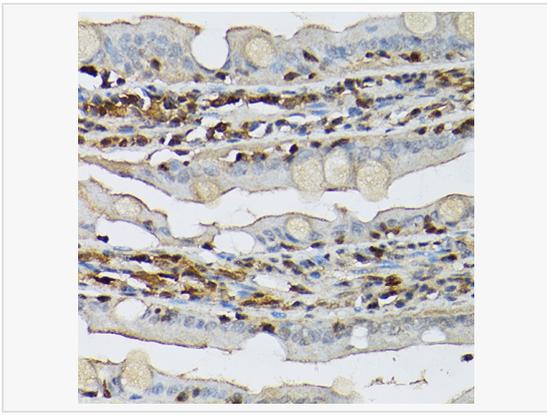
Immunohistochemistry analysis of paraffin-embedded Human tonsil using [KO Validated] STAT5B Rabbit pAb (P104577) at dilution of 1:100 (40× lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



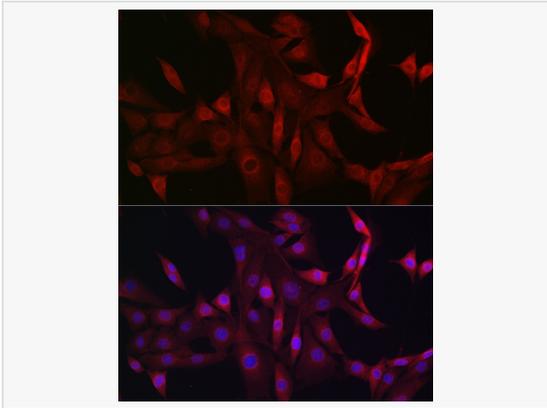
Immunohistochemistry analysis of paraffin-embedded Mouse intestin using [KO Validated] STAT5B Rabbit pAb (P104577) at dilution of 1:100 (40× lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



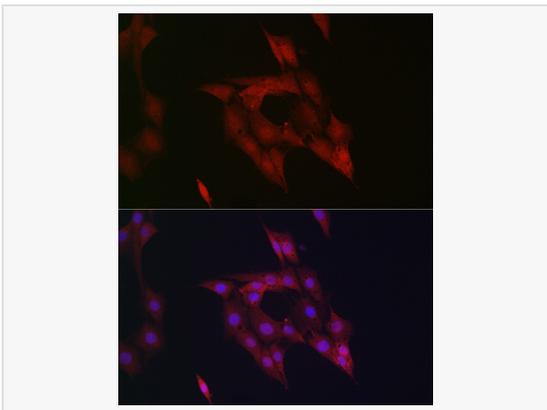
Immunohistochemistry analysis of paraffin-embedded Mouse kidney using [KO Validated] STAT5B Rabbit pAb (P104577) at dilution of 1:100 (40× lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



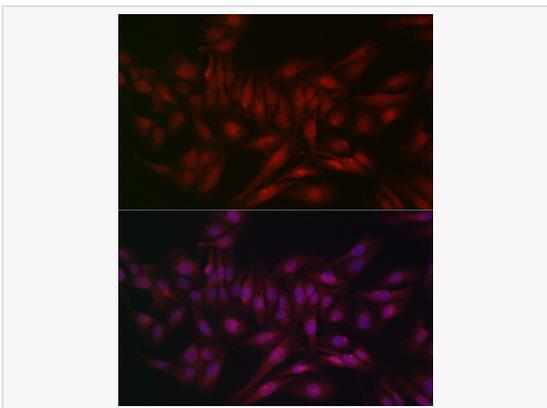
Immunohistochemistry analysis of paraffin-embedded Rat intestine using [KO Validated] STAT5B Rabbit pAb (P104577) at dilution of 1:100 (40× lens). High pressure antigen retrieval performed with 0.01M Citrate Bufferr (pH 6.0) prior to IHC staining.



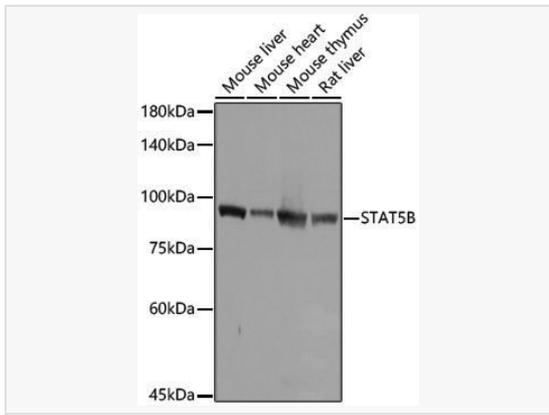
Immunofluorescence analysis of NIH/3T3 cells using STAT5B Rabbit pAb (P104577) at dilution of 1:100 (40× lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of PC-12 cells using STAT5B Rabbit pAb (P104577) at dilution of 1:100 (40× lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U2OS cells using STAT5B Rabbit pAb (P104577) at dilution of 1:100 (40× lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) at 1:500 dilution. Blue: DAPI for nuclear staining.



Western blot analysis of various lysates using [KO Validated] STAT5B Rabbit pAb (P104577) at 1:1,000 dilution.

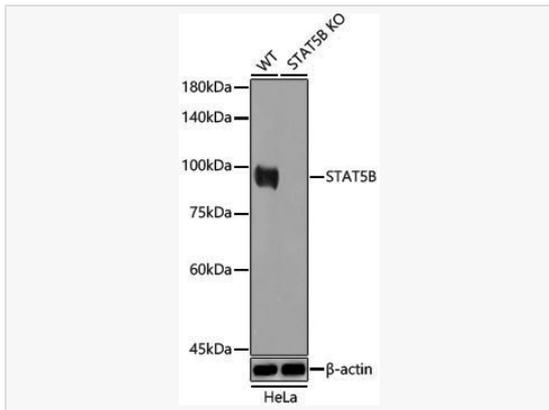
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Kit.

Exposure time: 1s.



Western blot analysis of lysates from wild type (WT) and STAT5B knockout (KO) HeLa cells, using [KO Validated] STAT5B Rabbit pAb (P104577) at 1:1,000 dilution.

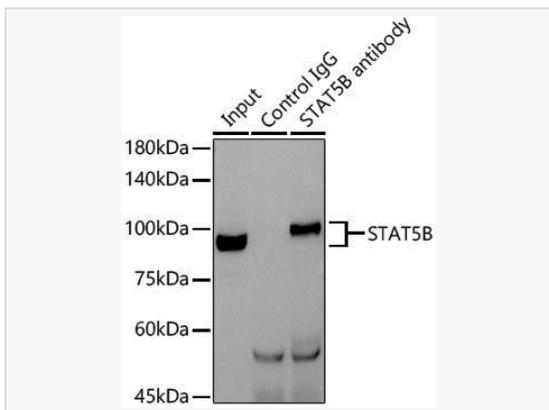
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (LF102) at 1:10,000 dilution.

Lysates/proteins: 25µg per lane.

Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Kit.

Exposure time: 10s.



Immunoprecipitation analysis of 600 µg extracts of Mouse thymus cells using 3 µg

STAT5B antibody (P104577). Western blot was performed from the immunoprecipitate using STAT5B antibody (P104577) at a dilution of 1:1000.