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Date : 2018/08/02

Catalog Number	GTX110587	Package:25 ul,100 ul	
Product Name	 (1)  (4)		
Full Name	STAT3 antibody [C2C3], C-term		
Synonyms	signal transducer and activator of transcription 3 (acute-phase response factor) APRF antibody, FLJ20882 antibody, HIES antibody, MGC16063 antibody, STAT3 antibody, acute-phase response factor antibody, DNA-binding protein APRF antibody, signal transducer and activator of transcription 3 antibody, signal transducer and activator of transcription 3 (acute- phase response factor) antibody		
Specificity	GTX110587 is recommended for WB application in mouse samples only. If you would like to use it on human samples, please refer to GTX104616		
Background	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. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Three alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq]		
Host	Rabbit		
Clonality	Polyclonal		
Isotype	IgG		
Immunogen	Recombinant protein encompassing a sequence within the C-terminus region of human STAT3. The exact sequence is proprietary.		
Antigen Species	Human		
Species Reactivity	Human, Mouse		
Predicted Cross Reactivity species	Rat, Pig, Chicken, Bovine		
Predict Reactivity Note	Rat (99%), Pig (99%), Chicken (92%), Bovine (98%)		
Applications	FACS, ICC/IF, IHC-P, WB		
Application Note	Flow cytometry/FACS Immunocytochemistry/ Immunofluorescence (ICC/IF) IHC (Formalin-fixed paraffin-embedded sections) Western Blot (WB) Not tested in other applications.	Suggested dilution Assay-dependent dilution 1:100-1:1000* 1:100-1:1000* 1:500-1:3000*	Reference
Positive Controls	A549 , HeLa , NIH-3T3 , OC3		
Predicted Target Size	88 kDa		
Conjugation	Unconjugated		
Form Supplied	Liquid		
Purification	Purified by antigen-affinity chromatography.		
Concentration	0.96 mg/ml (Please refer to the vial label for the specific concentration)		
Storage Buffer	1XPBS, 20% Glycerol (pH7). 0.025% ProClin 300 was added as a preservative. Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw		

Storage Instruction

cycles.

Notes

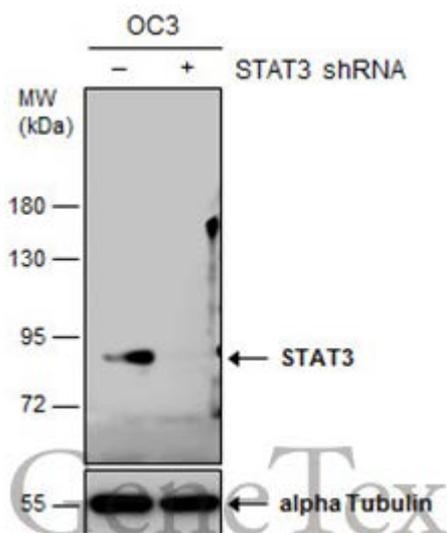
For *In vitro* laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

ResearchArea

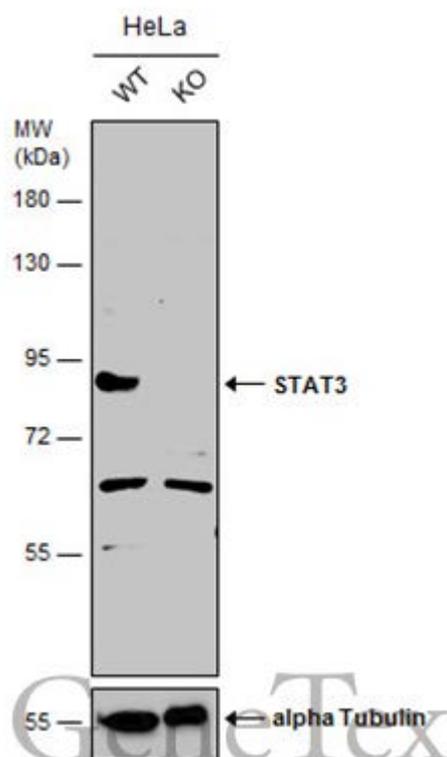
[Cancer](#) > [Type of cancer](#) > [Breast](#) > [Other](#)
[Cancer](#) > [Type of cancer](#) > [Thyroid](#)
[Cancer](#) > [Type of cancer](#) > [Urogenital](#) > [Kidney](#)

Application Reference

1. Aalinkeel R (2016) *J Neuroimmune Pharmacol*
2. Lu JH (2016) *Stem Cells Dev*
3. Zhang X (2015) *Oncol Lett* 3510-3514
4. Yang DJ (2014) *J Agric Food Chem* 3458-65

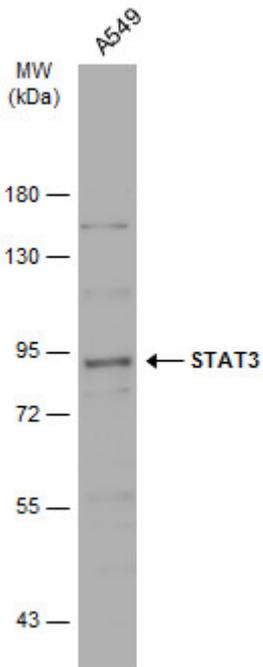


- GTX110587 WB Image
- Non-transfected (○) and transfected (+) OC3 whole cell extracts (30 μg) were separated by 7.5% SDS-PAGE, and the membrane was blotted with STAT3 antibody [C2C3], C-term (GTX110587) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.

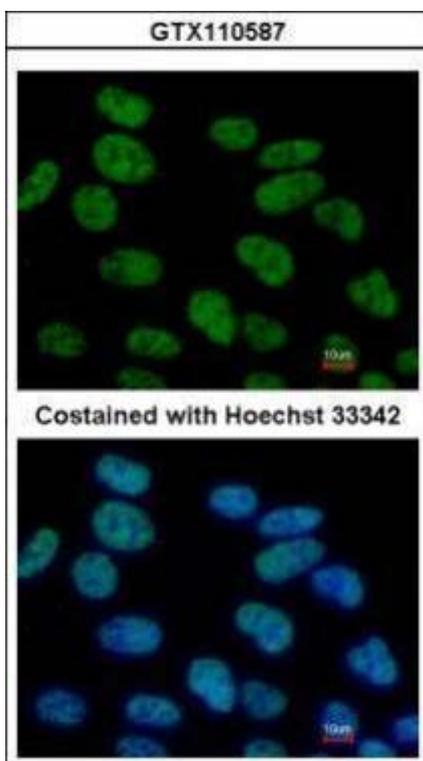


- GTX110587 WB Image

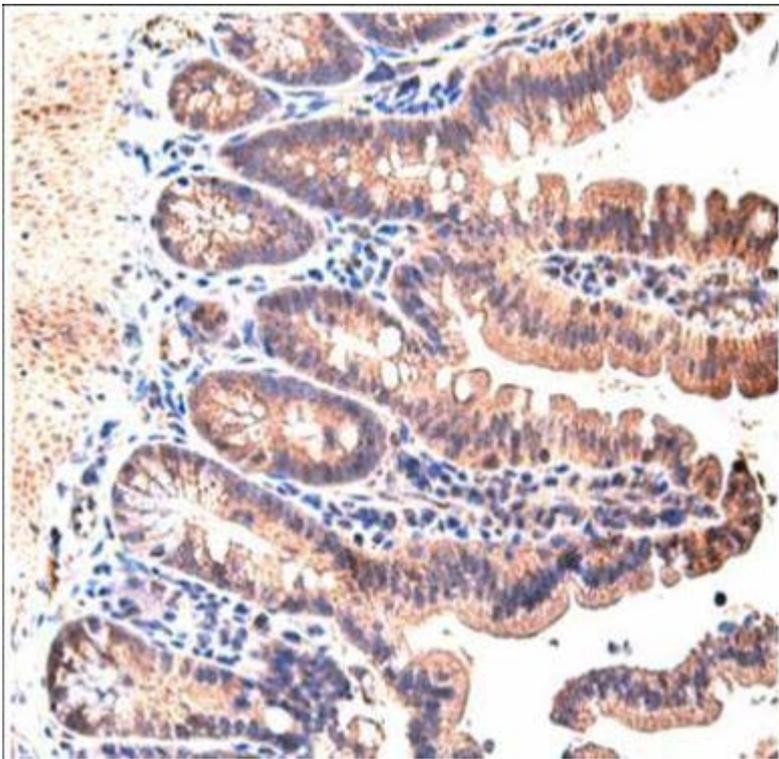
- Wild-type (WT) and STAT3 knockout (KO) HeLa cell extracts (30 μ g) were separated by 7.5% SDS-PAGE, and the membrane was blotted with STAT3 antibody [C2C3], C-term (GTX110587) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody, and the signal was developed with Trident ECL plus-Enhanced.



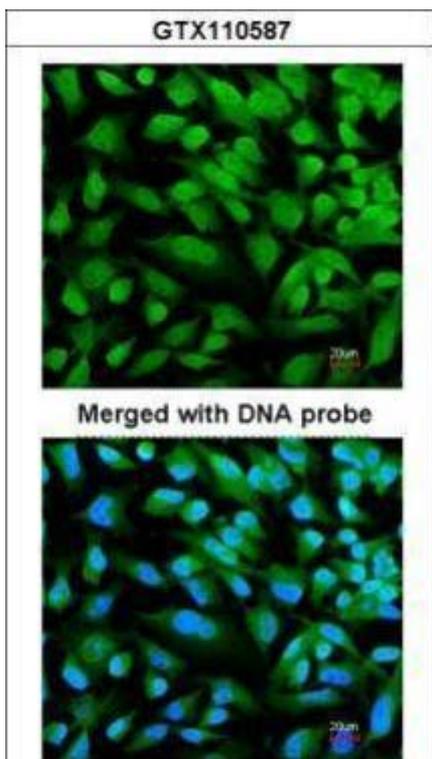
- GTX110587 WB Image
- Whole cell extract (30 μ g) was separated by 7.5% SDS-PAGE, and the membrane was blotted with STAT3 antibody [C2C3], C-term (GTX110587) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



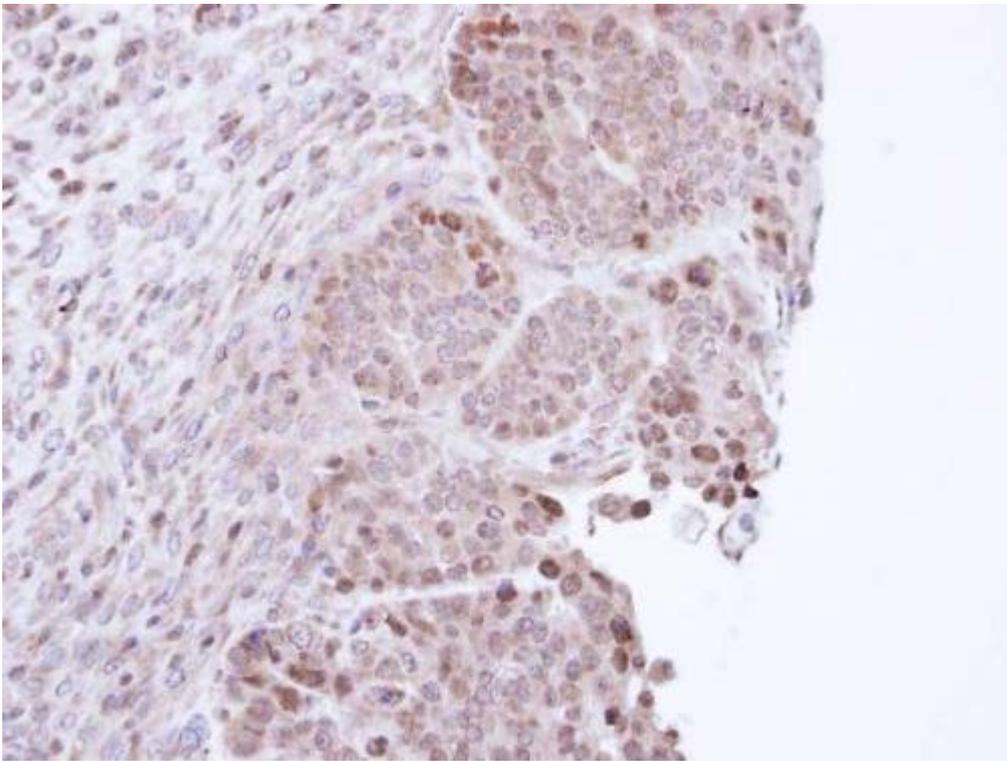
- GTX110587 ICC/IF Image
- Immunofluorescence analysis of paraformaldehyde-fixed Human ESC, using STAT3(GTX110587) antibody at 1:200 dilution.



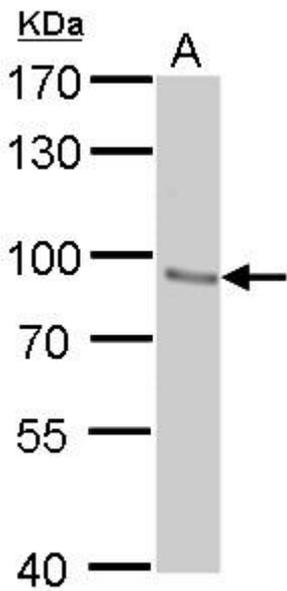
- GTX110587 IHC-P Image
- Immunohistochemical analysis of paraffin-embedded mouse small intestine, using STAT3(GTX110587) antibody at 1:200 dilution.(Image courtesy of Koji Taniguchi, Ph.D (Laboratory of Dr. Michael Karin, UCSD.)



- GTX110587 ICC/IF Image
- Immunofluorescence analysis of paraformaldehyde-fixed HeLa, using STAT3(GTX110587) antibody at 1:200 dilution.



- GTX110587 IHC-P Image
- Immunohistochemical analysis of paraffin-embedded NCIN87 xenograft, using STAT3(GTX110587) antibody at 1:100 dilution.



- GTX110587 WB Image
- STAT3 antibody detects STAT3 protein by western blot analysis.
A. 30 μ g NIH-3T3 whole cell lysate/extract
7.5% SDS-PAGE
STAT3 antibody (GTX110587) dilution: 1:500
The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.