

STAT3 Monoclonal Antibody (9D8)

Product Details

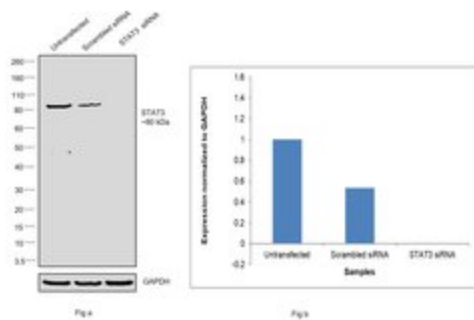
| | |
|--------------------|-----------------------------------------------------------------------|
| Size | 100 µL |
| Species | Human, Mouse, Non-human primate, Rat |
| Published Species | Human |
| Expression System | Mouse / IgG2a |
| Class | Monoclonal |
| Type | Antibody |
| Clone | 9D8 |
| Conjugate | Unconjugated |
| Immunogen | Residues 655-770 from human recombinant protein expressed in bacteria |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | Protein A |
| Storage buffer | PBS with 1mg/mL BSA |
| Contains | 0.05% sodium azide |
| Storage Conditions | -20° C, Avoid Freeze/Thaw Cycles |
| RRID | AB_10985240 |

| Applications | Tested Dilution | Publications |
|-------------------------------------------|-----------------|----------------|
| ChIP assay (ChIP) | 1-3 µL | - |
| Immunocytochemistry (ICC) | 1:100 | - |
| Immunofluorescence (IF) | 1:100 | - |
| Immunohistochemistry (Paraffin) (IHC (P)) | 1:1600 | - |
| Immunoprecipitation (IP) | 2 µg | - |
| Western Blot (WB) | 1:5000 | 3 Publications |
| Miscellaneous PubMed (Misc) | - | 1 Publication |

Product Specific Information

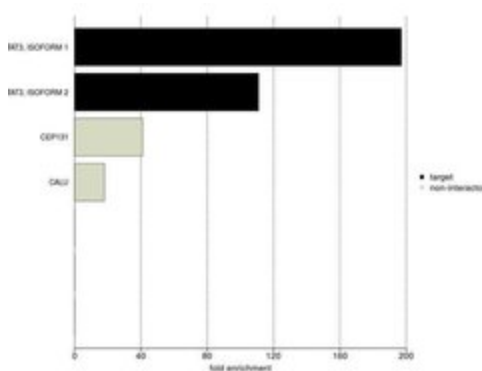
MA1-13042 detects STAT3 from human, mouse, monkey and rat samples. MA1-13042 has been successfully used in Western blot, ChIP, immunofluorescence, immunohistochemistry (paraffin), and immunoprecipitation procedures. By Western blot, this antibody detects a 88 kDa protein corresponding to STAT3. Positive control: HepG2 cells. The MA1-13042 antigen is a recombinant protein corresponding to residues 655-770 of human STAT3. Antibodies to this protein (and modification) were previously sold as part of a Thermo Scientific Cellomics High Content Screening Kit. This replacement antibody is now recommended for researchers who need an antibody for high content cell based assays. It has been thoroughly tested and validated for cellular immunofluorescence (IF) applications. Further optimization including the selection of the most appropriate fluorescent Dylight conjugated secondary antibody may have to be performed for your high content assay.

Advanced Verification Data



STAT3 Antibody (MA1-13042)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with Signal transducer and activator of transcription 3 siRNA and decrease in signal intensity was observed in Western Blot application using Anti-STAT3 Monoclonal Antibody (9D8) (Product # MA1-13042). Knockdown validation info.



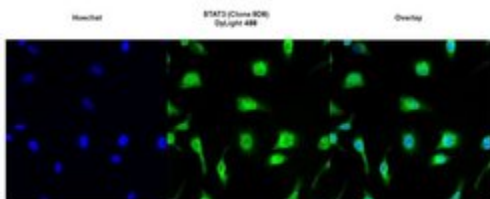
STAT3 Antibody (MA1-13042)

IP-MS enrichment of (LFQ intensity): Isoform 1 of STAT3 was enriched 197-fold and isoform 2 of STAT3 was enriched 111-fold from HCT116 lysate compared to background proteins, using the optimized IP-MS workflow with Pierce MS-Compatible Magnetic IP Kit protein A/G (Product # 90409) and antibody (Product # MA1-13042). The STRING database (www.string-db.org) was used to identify the protein interactor list. See more information on IP-MS verification of antibody selectivity. IP-MS validation info.

Product Images For STAT3 Monoclonal Antibody (9D8)

STAT3 Antibody (MA1-13042) in IF

Immunofluorescent analysis of STAT3 using anti-STAT3 (9D8) monoclonal antibody (Product # MA1-13042) (shown in green) in HeLa cells. Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature. Cells were then blocked with 1% Blocker BSA (Product # 37525) for 15 minutes at room temperature. Cells were probed with a mouse monoclonal antibody recognizing STAT3 (Product # MA1-13042), at a dilution of 1:100 for at least 1 hour at room temperature. Cells were then washed with PBS and incubated with DyLight 488 goat-anti-mouse secondary antibody (Product # 35503) at a dilution of 1:400 for 30 minutes at room temperature. Nuclei (blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ArrayScan at 20X magnification.



[View more figures on thermofisher.com](http://thermofisher.com)

4 References

Western Blot (3)

International journal of oncology

Effects of cell-cell crosstalk on gene expression patterns in a cell model of renal cell carcinoma lung metastasis.

"MA1-13042 was used in Western Blotting to study the contribution of cell-cell communication in the development of the metastatic niche in renal cell carcinoma."

Authors: Kaminska K,Czarnecka AM,Khan MI,Fendler W,Klemba A,Krasowski P,Bartnik E,Szczylik C

Species
Human

Dilution
1:100

Year
2018

PloS one

An Autocrine Cytokine/JAK/STAT-Signaling Induces Kynurenine Synthesis in Multidrug Resistant Human Cancer Cells.

"MA1-13042 was used in western blot to analyze multidrug resistant human cancer cells and autocrine cytokine/JAK/STAT-signaling induces kynurenin synthesis"

Authors: Campia I,Buondonno I,Castella B,Rolando B,Kopecka J,Gazzano E,Ghigo D,Riganti C

Species
Not Applicable

Dilution
1:5000

Year
2016

[View more WB references on thermofisher.com](#)

Miscellaneous PubMed (1)

Blood

Whole-genome sequencing reveals oncogenic mutations in mycosis fungoides.

"MA1-13042 was used in western blot to identify factors that contribute to mycosis fungoides pathogenesis"

Authors: McGirt LY,Jia P,Baerenwald DA,Duszynski RJ,Dahlman KB,Zic JA,Zwerner JP,Hucks D,Dave U,Zhao Z, Eischen CM

Species
Human

Dilution
Not Cited

Year
2015

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