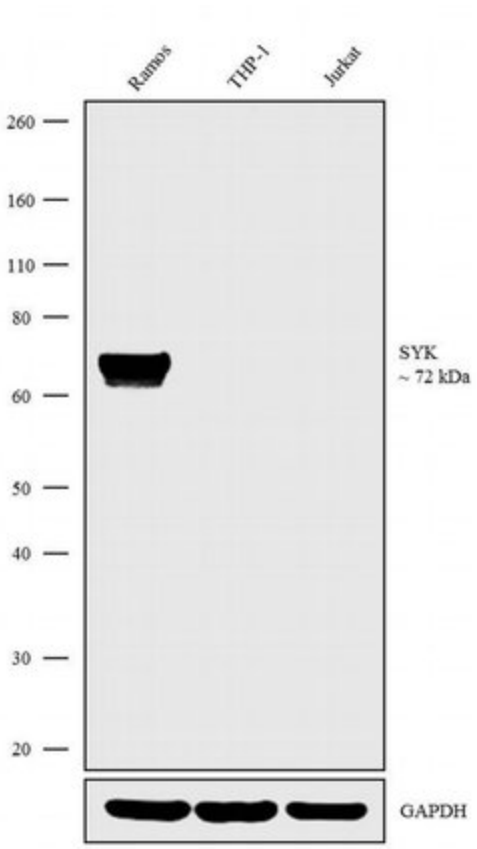
Syk Monoclonal Antibody (SYK-01)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	SYK-01
Conjugate	Unconjugated
Immunogen	Recombinant fragment (aa 5-360) of human Syk.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.4
Contains	15mM sodium azide
Storage conditions	4° C, do not freeze
RRID	AB_2197214

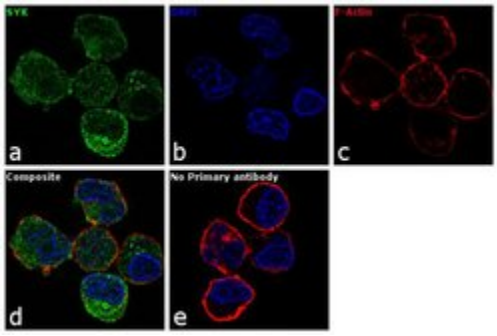
Applications	Tested Dilution	Publications
Western Blot (WB)	1 µg/mL	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	5 µg/mL	-
Immunocytochemistry (ICC/IF)	5 µg/mL	-
Immunoprecipitation (IP)	Assay-dependent	1 Publication

Advanced Verification Data

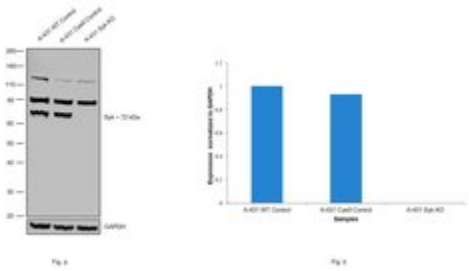


Syk Antibody (MA1-19332)
Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Higher expression of Syk was observed specifically in B-lymphocytes (Ramos) in comparison to other hematopoietic cell lines (THP-1, Jurkat) using Anti-Syk Monoclonal Antibody (Product # MA1-19332) in western blot. Relative expression validation info.

Product Images For Syk Monoclonal Antibody (SYK-01)



Syk Antibody (MA1-19332) in ICC/IF
Immunofluorescence analysis of SYK was performed using 70% confluent log phase Ramos cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with SYK Mouse Monoclonal Antibody(Product # MA1-19332) at 5 µg/mL in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



Syk Antibody (MA1-19332) in WB
Knockout of SYK was achieved by CRISPR-Cas9 genome editing using LentiArray™ Lentiviral sgRNA (Product # A32042, AssayID CRISPR819133_LV) and LentiArray Cas9 Lentivirus (Product # A32064). Western blot analysis of SYK was performed by loading 30 µg of A-431 wild type (Lane 1), A-431 CAS9 (Lane 2), A-431 SYK KO (Lane 3) whole cell extracts. The blot was probed with Anti-Syk Monoclonal Antibody (SYK-01)(Product # MA1-19332) using 1:1000 dilution and Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177). Loss of signal upon CRISPR mediated knockout (KO) using the LentiArray™ CRISPR product line confirms that antibody is specific to SYK. An uncharacterized band was observed at ~80kDa and ~120kDa.

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3 References

Western Blot (2)

Journal of immunology (Baltimore, Md. : 1950)

An Allosteric Shift in CD11c Affinity Activates a Proatherogenic State in Arrested Intermediate Monocytes.

"MA1-19332 was used in Western Blotting to conclude that CD11c functions as a mechanoregulator that activates an inflammatory state preferentially in a majority of iMo from cardiac patients but not healthy patients."

Authors: Hernandez AA,Foster GA,Soderberg SR,Fernandez A,Reynolds MB,Orser MK,Bailey KA,Rogers JH,Singh GD, Wu H,Passerini AG,Simon SI

Species
Human

Dilution
Not Cited

Year
2020

Nature communications

CARD9 negatively regulates NLRP3-induced IL-1 production on Salmonella infection of macrophages.

"MA1-19332 was used in immunoprecipitation and western blot to examine the contribution of the CARD9 domain of interleukin-1beta in Salmonella enterica serovar Typhimurium infection"

Authors: Pereira M,Tourlomousis P,Wright J,P Monie T,Bryant CE

Species
Mouse

Dilution
1:1000

Year
2016

Immunoprecipitation (1)

Nature communications

CARD9 negatively regulates NLRP3-induced IL-1 production on Salmonella infection of macrophages.

"MA1-19332 was used in immunoprecipitation and western blot to examine the contribution of the CARD9 domain of interleukin-1beta in Salmonella enterica serovar Typhimurium infection"

Authors: Pereira M,Tourlomousis P,Wright J,P Monie T,Bryant CE

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2016