

# Beclin 1 Monoclonal Antibody (2A4)

Product Details	
Size	100 µL
Species Reactivity	Human
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	2A4
Conjugate	Unconjugated
Immunogen	Purified recombinant fragment of human BECN1 expressed in E. Coli.
Form	Liquid
Concentration	Conc. Not Determined
Storage buffer	ascites
Contains	0.03% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_11153717

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:2,000	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:200-1:1,000	-
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	1:200-1:400	-
ELISA (ELISA)	1:10,000	-

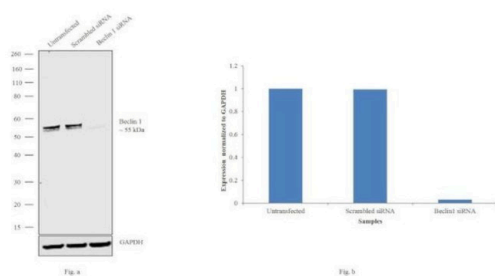
## Product Specific Information

MA5-15825 targets BECN1 in indirect ELISA, FACS, IHC, and WB applications and shows reactivity with Human samples.

The MA5-15825 immunogen is purified recombinant fragment of human BECN1 expressed in E. Coli.

MA5-15825 detects BECN1 which has a predicted molecular weight of approximately 60kDa.

## Product Images For Beclin 1 Monoclonal Antibody (2A4)

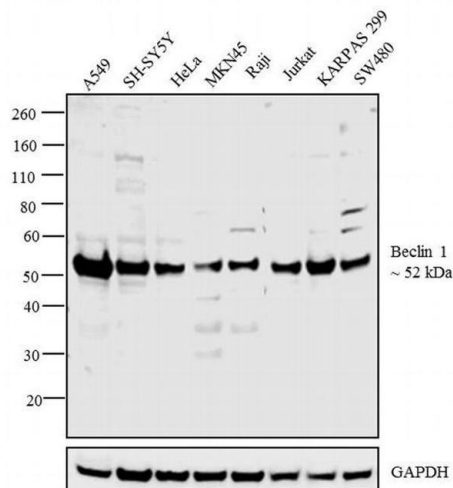


### Beclin 1 Antibody (MA5-15825)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with Beclin 1 siRNA and reduction in signal was observed in Western Blot using Beclin 1 Monoclonal Antibody (2A4) (Product# MA5-15825). {KD}

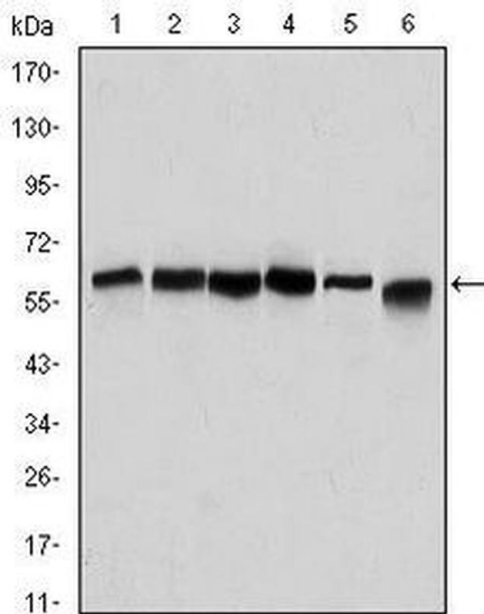
### Beclin 1 Antibody (MA5-15825) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of A549 (Lane 1), SH-SY5Y (Lane 2), HeLa (Lane 3), MKN45 (Lane 4), Raji (Lane 5), Jurkat (Lane 6), KARPAS 299 (Lane 7) and SW480 (Lane 8). The blot was probed with Anti-Beclin 1 Monoclonal Antibody (2A4) (Product # MA5-15825, 1:1000 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). A 52 kDa band corresponding to Beclin 1 was observed across the cell lines tested.



### Beclin 1 Antibody (MA5-15825) in WB

Western blot analysis of BECN1 using BECN1 monoclonal antibody (Product # MA5-15825) in HeLa (1), A431 (2), MCF-7 (3), RAJI (4), Jurkat (5) and SKBR-3 (6) cell lysate.



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

## 3 References

### Western Blot (2)

The Journal of international medical research

#### Lipoxin A4 promotes autophagy and inhibits overactivation of macrophage inflammasome activity induced by Pg LPS.

"MA5-15825 was used in Western Blot to explore the role of lipoxin A4 on inflammasome and inflammatory activity in macrophages activated by Porphyromonas gingivalis lipopolysaccharide one of the major causative agents of chronic periodontitis."

Authors: Zhao J,Geng W,Wan K,Guo K,Xi F,Xu X,Xiong X,Huang X,Liu J,Kuang X

Year  
2021

Species  
Mouse

Oncology letters

#### Mechanistic studies of cytotoxic activity of the mesoionic compound MIH 2.4BI in MCF-7 breast cancer cells.

"Published figure using Beclin 1 monoclonal antibody (Product # MA5-15825) in Western Blot"

Authors: de Mascena Costa LA,Debnath D,Harmon AC,de Sousa Araújo S,da Silva Souza HD,de Athayde Filho PF,Wischral A,Adrião Gomes Filho M,Mathis JM

Year  
2020

### Immunocytochemistry (1)

Oncology reports

#### Gambogic acid inhibits proliferation and induces apoptosis of human acute Tcell leukemia cells by inducing autophagy and downregulating catenin signaling pathway: Mechanisms underlying the effect of Gambogic acid on TALL cells.

"MA5-15825 was used in Immunocytochemistry to conclude that GA can inhibit the growth and survival of T,ALL cells. GA also had antileukemic activity, at least in part, through the downregulation of the Wnt/-catenin signaling pathway."

Authors: Wang T,Du J,Kong D,Yang G,Zhou Q,You F,Lin Y,Wang Y

Year  
2020

Species  
Human

Dilution  
1:1000

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