

AP2 alpha Monoclonal Antibody (3B5)

Product Details	
Size	100 µL
Species Reactivity	Chicken, Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Mouse / IgG2b
Class	Monoclonal
Type	Antibody
Clone	3B5
Conjugate	Unconjugated
Immunogen	N-terminus of human AP2a.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS with 1mg/mL BSA
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2199412

Applications	Tested Dilution	Publications
Western Blot (WB)	1:50 - 1:200	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:50	-
Immunocytochemistry (ICC/IF)	1:50-1:500	2 Publications
Immunoprecipitation (IP)	1:100 - 1:250	-

Product Specific Information

MA1-872 detects AP-2 from human, mouse, and chicken samples.

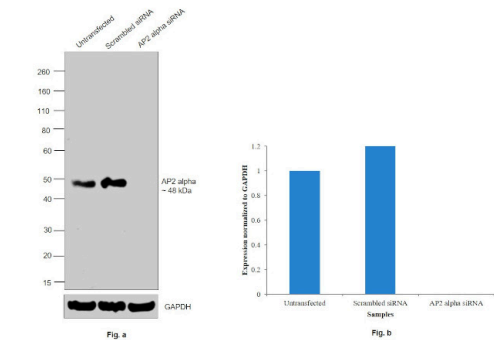
MA1-872 has been successfully used in Western blot, immunoprecipitation, and immunofluorescence applications. By Western blot, this antibody detects a 45-50 kDa band representing AP-2. For Western blotting, block with BSA only (not milk).

The MA1-872 immunogen is the N-terminus of human AP2a.

Product Images For AP2 alpha Monoclonal Antibody (3B5)

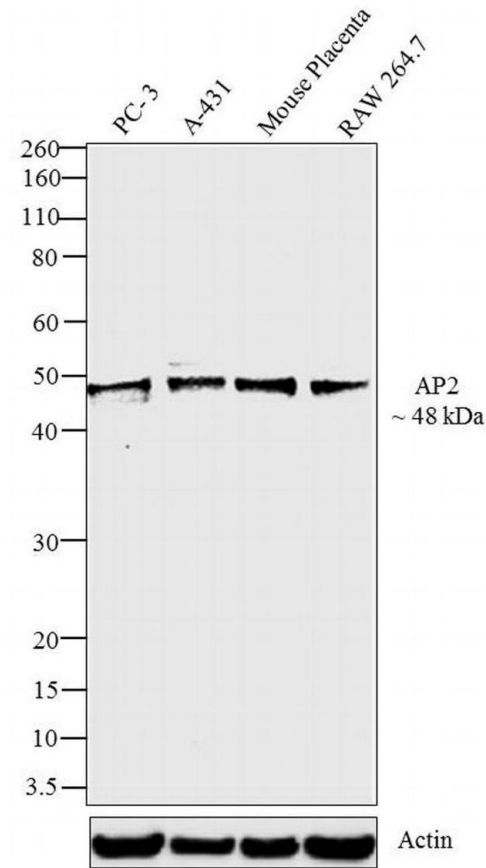
AP2 alpha Antibody (MA1-872)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. SK-BR-3 cells were transfected with AP2 alpha siRNA and absence of signal was observed in Western Blot using AP2 alpha Monoclonal Antibody (3B5) (Product # MA1-872). {KD}



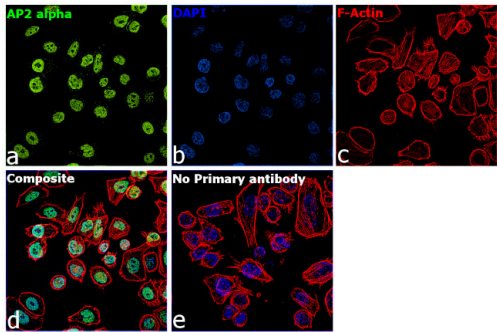
AP2 alpha Antibody (MA1-872) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of PC-3 (Lane1), A-431 (Lane2), Mouse Placenta (Lane3) and RAW 264.7 (Lane5). The blots were probed with AP2 Mouse Monoclonal Antibody (Product # MA1-872, 1:50 - 1:200 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Secondary Antibody, HRP conjugate (Product # 62-6520, 1:4000 dilution). A 48 kDa band corresponding to AP2 was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 10 % Bis-Tris gel (Product # NP0302BOX), XCell SureLock™ Electrophoresis System (Product # EI0002), and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with Pierce™ Power Blotter System (22834) The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



AP2 alpha Antibody (MA1-872) in ICC/IF

Immunofluorescence analysis of SKP2 was performed using 70% confluent log phase SK-BR-3 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 1 hour at room temperature. The cells were labeled with AP2 alpha Monoclonal Antibody (3B5) (Product MA1-872) at 1:100 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then with Goat anti-Rabbit IgG (Heavy Chain), Superclonal™ Recombinant Secondary Antibody, Alexa Fluor 488 (Product # A27034, 1:2000 dilution) 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 nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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Western Blot (1)

Cell	Year 2021
Chaperone-mediated autophagy prevents collapse of the neuronal metastable proteome.	Species Mouse
"MA1-872 was used in Flow cytometry/Cell sorting to conclude that functional CMA is essential for neuronal proteostasis through the maintenance of a subset of the proteome with a higher risk of misfolding than the general proteome."	Dilution 1:1000
Authors: Bourdenx M,Martín-Segura A,Scrivo A,Rodriguez-Navarro JA,Kaushik S,Tasset I,Diaz A,Storm NJ,Xin Q,Juste YR,Stevenson E,Luengo E,Clement CC,Choi SJ,Krogan NJ,Mosharov EV,Santambrogio L,Grueninger F,Collin L,Swaney DL,Sulzer D,Gavathiotis E,Cuervo AM	

Immunocytochemistry (2)

Cells	Year 2021
Directed Differentiation of Human Pluripotent Stem Cells towards Corneal Endothelial-Like Cells under Defined Conditions.	Species Human
"MA1-872 was used in Immunocytochemistry to generate CEnC-like cells from hPSCs with a defined, simple and fast differentiation method."	Dilution 1:400
Authors: Grönroos P,Ilmariinen T,Skottman H	

Cells	Year 2019
Aberrant hiPSCs-Derived from Human Keratinocytes Differentiates into 3D Retinal Organoids that Acquire Mature Photoreceptors.	Species Human
"MA1-872 was used in Immunocytochemistry-immunoflourescence to show that human induced pluripotent stem cells with abnormal chromosomal content are permissive to the generation of three-dimensional retinal organoids."	Dilution 1:50
Authors: Shrestha R,Wen YT,Ding DC,Tsai RK	

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