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	-

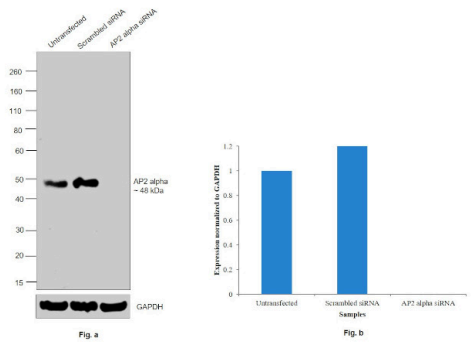
Product Specific Information

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

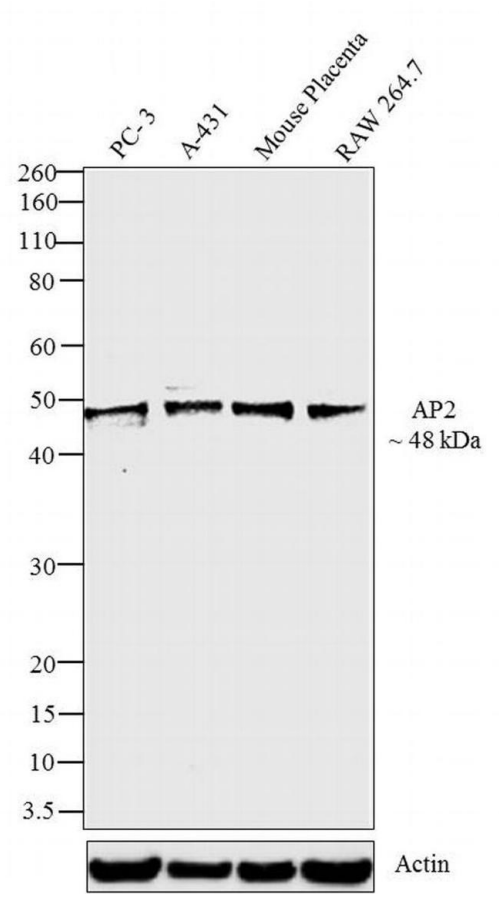
MA1-872 has been successfully used in Western blot, immunoprecipitation, and immunofluorescence applications. By Western blot, this antibody detects a 45-50 kDa band representing AP-2. For Western blotting, block with BSA only (not milk).

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

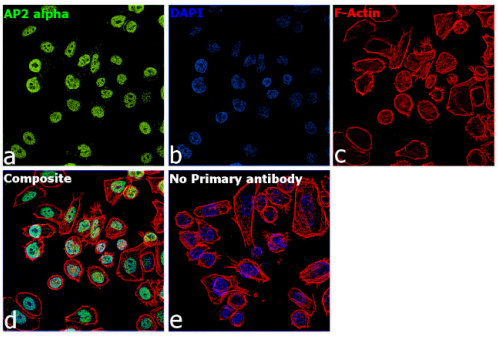
Product Images For AP2 alpha Monoclonal Antibody (3B5)



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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3 References

Western Blot (1)

Cell

Chaperone-mediated autophagy prevents collapse of the neuronal metastable proteome.

"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."

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

Year
2021

Species
Mouse

Dilution
1:1000

Immunocytochemistry (2)

Cells

Directed Differentiation of Human Pluripotent Stem Cells towards Corneal Endothelial-Like Cells under Defined Conditions.

"MA1-872 was used in Immunocytochemistry to generate CEnC-like cells from hPSCs with a defined, simple and fast differentiation method."

Authors: Grönroos P,Ilmarinen T,Skottman H

Year
2021

Species
Human

Dilution
1:400

Cells

Aberrant hiPSCs-Derived from Human Keratinocytes Differentiates into 3D Retinal Organoids that Acquire Mature Photoreceptors.

"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."

Authors: Shrestha R,Wen YT,Ding DC,Tsai RK

Year
2019

Species
Human

Dilution
1:50