

Human α-1 Adrenergic R/ADRA1A Antibody

Monoclonal Mouse IgG₁ Clone # 518508 Catalog Number: MAB10298

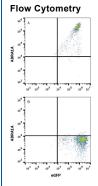
DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human α-1 Adrenergic R/ADRA1A in direct ELISAs.	
Source	Monoclonal Mouse IgG ₁ Clone # 518508	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	HEK293 human embryonic kidney cell line transfected with human α-1 Adrenergic R/ADRA1A Accession # P35348	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

APPLICATIONS

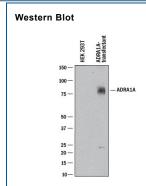
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	2 μg/mL	See Below
Flow Cytometry	0.25 μg/10 ⁶ cells	See Below

DATA



Detection of α -1 Adrenergic R/ADRA1A in HEK293 Human Cell Line Transfected with Human α -1 Adrenergic R/ADRA1A and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with either (A) human a-1 Adrenergic R/ADRA1A or (B) irrelevant protein and eGFP was stained with Mouse Anti-Human a-1 Adrenergic R/ADRA1A Monoclonal Antibody (Catalog # MAB10298) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # Catalog # MAB002). View our protocol for Staining Membrane-associated Proteins.



Detection of Human α -1 Adrenergic R/ADRA1A by Western Blot. Western blot shows lysates of HEK293T human embryonic kidney cell line either mock transfected or transfected with human a-1 Adrenergic R/ADRA1A. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human a-1 Adrenergic R/ADRA1A Monoclonal Antibody (Catalog # MAB10298) followed by HRPconjugated Anti-Mouse IgG Secondary Antibody (Catalog # Catalog # HAF018). A specific band was detected for a-1 Adrenergic R/ADRA1A at approximately 80 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

ShippingThe product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution

BACKGROUND

ADRA1A (formerly known as alpha 1-C adrenergic receptor) is an alpha-adrenergic receptor which is mediated by G(q) and G(11) proteins. Alpha-1 Adrenoreceptors play an important role in mediating human prostatic smooth muscle contraction. Antagonists of ADRA1A include tamsulosin and silodosin which treat benign prostatic hyperplasia.

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