Revision 1

Store at -20C

#12731

APBA2 (D8A6) Rabbit mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R	Endogenous	135	Rabbit IgG	#Q99767	321

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

APBA2 (D8A6) Rabbit mAb recognizes endogenous levels of total APBA2 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val23 of human APBA2 protein.

Background

Amyloid β A4 precursor protein-binding family A member 2 (APBA2) is a neuronal adaptor protein that interacts with the amyloid β precursor protein (APP) (1). The amyloid β-protein (Aβ) is the principal component of amyloid plaques, a pathological hallmark of Alzheimer's disease (2). APBA2 has been shown to stabilize APP metabolism and suppress the secretion of Aβ (3). APBA2 mediates interaction between APP and the neural type I membrane protein Alcadein (Alc) by linking their cytoplasmic domains, thereby forming a tripartite complex of the three proteins in neurons (4).

Background References

1. Sakuma, M. et al. (2009) *J Neurochem* 109, 465-75.
2. Saito, Y. et al. (2008) *J Biol Chem* 283, 35763-71.
3. Araki, Y. et al. (2003) *J Biol Chem* 278, 49448-58.
4. Sano, Y. et al. (2006) *J Biol Chem* 281, 37853-60.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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