

Store at  
-20C  
#62263**A2BP1 (E8R9Z) Rabbit Monoclonal Antibody**
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**For Research Use Only. Not for Use in Diagnostic Procedures.**

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP	H M R	Endogenous	50, 60	Rabbit IgG	#Q9NWB1	54715

**Product Usage Information****Application**Western Blotting  
Immunoprecipitation**Dilution**1:1000  
1:200**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**

A2BP1 (E8R9Z) Rabbit Monoclonal Antibody recognizes endogenous levels of total A2BP1 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro106 of human A2BP1 protein.

**Background**

Ataxin-2-binding protein 1 (A2BP1) is part of the RNA-binding Fox (RBFOX) family of splicing factors, which is composed of three members, RBFOX1 (Fox-1 or A2BP1), RBFOX2 (Fox-2 or RBM9), and RBFOX3 (Fox-3, HRNBP3, or NeuN). RBFOX proteins regulate splicing of many neuronal transcripts by binding the sequence (U)GCAUG in mRNA precursors (1). Human A2BP1 was first identified through its interaction with Ataxin-2, the protein mutated in spinocerebellar ataxia type II. It has since been shown to play a role in the etiology of autism spectrum disorder (ASD) (1,2). Impaired A2BP1 function was found to cause abnormal corticogenesis during brain development. The abnormal process may underlie the basic pathophysiology of ASD and other neurodevelopmental disorders and may contribute to the emergence of the clinical symptoms of patients with *RBFOX1* gene abnormalities (3). The expression of A2BP1 is restricted to neurons, heart, and muscle (1,4).

**Background References**

1. Gehman, L.T. et al. (2011) *Nat Genet* 43, 706-11.
2. Hamada, N. et al. (2016) *Sci Rep* 6, 30805.
3. Hamada, N. et al. (2015) *Mol Autism* 6, 56.
4. Casanovas, S. et al. (2020) *Front Mol Neurosci* 13, 66.

**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**Trademarks and Patents**

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