

## Anti-ADAR1 Polyclonal Antibody2

### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 135 kDa. Actual: 110 kDa.
Purification:	Protein A purified

### Applications

1. Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (ADAR1) Polyclonal Antibody, Unconjugated (TMAB-02309) at 1:400 overnight at 4°C, followed by a conjugated secondary antibody for 20 minutes and DAB staining.

2. Sample:

A549 (Human) Cell Lysate at 30 µg

Primary: Anti-ADAR1 (TMAB-02309) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 135 kD

Observed band size: 110 kD

3. Sample:

NIH/3T3 (Mouse) Cell Lysate at 30 µg

Cerebrum (Mouse) Lysate at 40 µg

Primary: Anti-ADAR1 (TMAB-02309) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 135 kD

Observed band size: 110 kD

4. Sample:

HepG2 (Human) Cell Lysate at 30 µg

Primary: Anti-ADAR1 (TMAB-02309) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 135 kD

Observed band size: 110 kD

Verified Activity:

Application: WB,IHC-P,IHC-Fr,IF

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

### Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human DRADA  
Antigen Species: Human  
Gene ID: 103  
Uniprot ID: P55265

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### Research Background

ADAR1 converts adenosine to inosine in dsRNA, which destabilizes the dsRNA helix. This activity is important for various functions like site-specific RNA editing of transcripts of the glutamate receptors and modifying viral RNA genomes (which may be responsible for hypermutation of certain negative-stranded viruses, e.g., measles virus). ADAR1 also binds to short interfering RNAs (siRNA) without editing them and suppresses siRNA-mediated RNA interference. This protein is ubiquitously expressed, with the highest levels being found in brain and lung.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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