Data Sheet (Cat.No.TMAB-02310)

Anti-ADAR1 Polyclonal Antibody

Product Details

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

Applications

Verified Activity:	1. Sample: Lane 1: A549 (Human) Cell Lysate at 30 µg Lane 2: U251 (Human) Cell Lysate at 30 µg Primary: Anti-ADAR1 (TMAB-02310) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 150/110 kD Observed band size: 110 kD 2. Blank control (black line): HepG2. Primary Antibody (green line): Rabbit Anti-ADAR1 antibody (TMAB-02310) Dilution: 2 µg/Test; Secondary Antibody (white blue line): Goat anti-rabbit IgG-FITC Dilution: 0.5 µg/Test. Isotype control (orange line): Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20℃, The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.
Application:	WB,FCM
Recommended	WB: 1:500-2000; FCM: 2µg/Test

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

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.

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