

# Anti-ADAR1 Antibody

CATALOG NO.: A2035-100 (100 µl)

**BACKGROUND DESCRIPTION:** Double-stranded RNA-specific adenosine deaminase (ADAR1) encodes the enzyme that is responsible for destabilization of double-stranded RNA by deaminating adenosine to inosine in non-coding repetitive elements and short interspersed nuclear elements. ADAR1 is known to be expressed in embryonic cells and adult tissues and is responsible for the maturation and differentiation of these cells and tissues. ADAR1 also plays an essential role in the maintenance of hematopoietic stem cells. Several isoforms of ADAR1 exist, which includes a full-length protein (150 kDa) and two short functionally active isoforms (80 and 110 kDa).

**ALTERNATE NAMES:** ADAR1; DSRAD; G1P1; IFI4; Double-stranded RNA-specific adenosine deaminase; DRADA; 136 kDa double-stranded RNA-binding protein; p136; Interferon-inducible protein 4; IFI-4; K88DSRBP

**ANTIBODY TYPE:** Polyclonal

**HOST/ISOTYPE:** Rabbit / IgG

**IMMUNOGEN:** KLH-conjugated synthetic peptide targeting a sequence within the C-term region of human ADAR1

**MOLECULAR WEIGHT:** 136 kDa

**PURIFICATION:** Affinity purified

**FORM:** Liquid

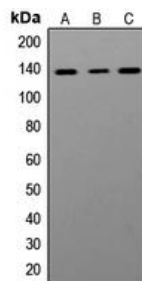
**FORMULATION:** In 0.42% Potassium phosphate; 0.87% NaCl; pH 7.3; 30% glycerol; and 0.01% sodium azide

**SPECIES REACTIVITY:** Human, Mouse, Rat, Porcine

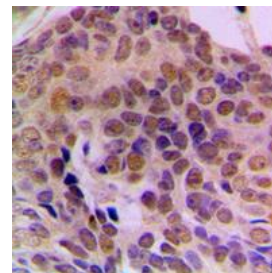
**STORAGE CONDITIONS:** Store at -20°C. Avoid freeze / thaw cycles

**APPLICATIONS AND USAGE:** WB 1:500 - 1:1000, IHC 1:100 - 1:200

**Note:** This information is only intended as a guide. The optimal dilutions must be determined by the user



Western blot analysis of ADAR1 expression in Jurkat (A); Ramos (B); HeLa (C) whole cell lysates.



Immunohistochemical analysis of ADAR1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0), then incubated with the antibody at RT and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with hematoxylin and mounted with DPX.

## RELATED PRODUCTS:

EGFR Antibody (3782)  
 ALK antibody (3355)  
 Anti-STAT3 Antibody (A1670)  
 Anti-IL-6 Antibody (A1398)