

ADAR2 (Adenosine Deaminase Acting on RNA 2). Sheep Antigen Immunoaffinity Purified Polyclonal
RED-1, RED1; ADAR2, DRADA2 dsRNA adenosine deaminase, RNA-editing deaminase 1, RNA-editing enzyme 1

BACKGROUND

RED 1 also called ADAR2 is involved in the editing of the messenger RNAs for glutamate receptor (GluR) subunits by site-selective adenosine deamination. It edits both the GluR-B Q/R and R/G sites efficiently but converts the adenosine in hotspot1 much less efficiently.

ORDERING INFORMATION

CATALOG NUMBER
U115P

SIZE
50 µg

FORM
Affinity Purified

HOST/CLONE
Sheep

FORMULATION
Affinity Purified

CONCENTRATION
See vial for concentration

ISOTYPE
IgG

APPLICATIONS
Western Blot

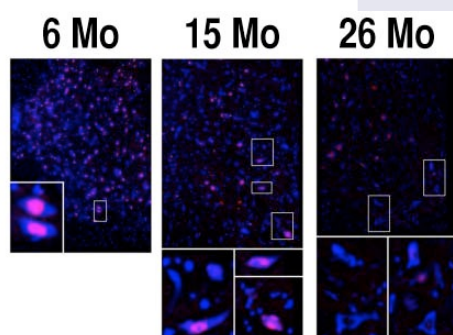
SPECIES REACTIVITY
Rat

ACCESSION NUMBER
Rat P51400

IMMUNOGEN

GST fusion protein containing aa 6-66 of the rat RED1 coding sequence

Immunofluorescence staining of mouse anterior horns of spinal cord at 6 months, 15 months and 26 months of age. Antibody used at 1:100 dilution and visualized using donkey anti-sheep conjugated to Alexa 555 dye (red color). The blue color is a fluorescent nuclear probe, TOPRO3. (Image modified from original in citation 1)



POSITIVE CONTROL/TISSUE EXPRESSION

Rat Brain

COMMENTS

Suggested dilution for WB: 1:1000. Optimal concentration should be evaluated by serial dilutions.

PURIFICATION

Antigen Immunoaffinity Purification

SHIP CONDITIONS

Ship at ambient temperature, freeze upon arrival

STORAGE CUSTOMER

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

STABILITY

Products are stable for one year from purchase when stored properly

REFERENCES**PRODUCT SPECIFIC REFERENCES**

1. Hideyama, T., et al. 'Co-Occurrence of TDP-43 Mislocalization with Reduced Activity of an RNA Editing Enzyme, ADAR2, in Aged Mouse Motor Neurons' PLoS One, 7, e43469, 2012
2. Yamashita, T., et al. 'Rescue of amyotrophic lateral sclerosis phenotype in a mouse model by intravenous AAV9-ADAR2 delivery to motor neurons.' EMBO Mol. Med., 2013, 5, 1710-1719