**Parkin (PRK8): sc-32282**

**BACKGROUND**

Parkin is a zinc-finger protein that is related to ubiquitin at the amino-terminus. The wildtype Parkin gene, which maps to human chromosome 6q26, encodes a 465 amino acid full-length protein that is expressed as multiple isoforms. Mutations in the Parkin gene are responsible for autosomal recessive juvenile Parkinson’s disease and commonly involve deletions of exons 3-5. In humans, Parkin is expressed in a subset of cells of the basal ganglia, midbrain, cerebellum and cerebral cortex, and is subject to alternative splicing in different tissues. Parkin expression is also high in the brainstem of mice, with the majority of immunopositive cells being neurons. The Parkin gene has been identified in a diverse group of organisms including mammals, birds, frog and fruit flies, suggesting that analogous functional roles of the Parkin protein may have been highly conserved during the course of evolution.

**CHROMOSOMAL LOCATION**

Genetic locus: PARK2 (human) mapping to 6q26; Park2 (mouse) mapping to 17 A1.

**SOURCE**

Parkin (PRK8) is a mouse monoclonal antibody raised against recombinant human Parkin with an epitope mapping between amino acids 399-465 at the C-terminus within the RING2/R2, second RING domain.

**PRODUCT**

Each vial contains 200 µg IgG2b kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin. Parkin (PRK8) is available conjugated to agarose (sc-32282 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-32282 HRP), 200 µg/ml, for WB, (HCP) and ELISA; to either phycoerythrin (sc-32282 PE), fluorescein (sc-32282 FITC), Alexa Fluor® 488 (sc-32282 AF488), Alexa Fluor® 546 (sc-32282 AF546), Alexa Fluor® 594 (sc-32282 AF594) or Alexa Fluor® 647 (sc-32282 AF647), 200 µg/ml, for WB (RGB), IF, HCP and FCM; and to either Alexa Fluor® 680 (sc-32282 AF680) or Alexa Fluor® 790 (sc-32282 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

Parkin (PRK8) is recommended for detection of Parkin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁶ cells).


Molecular Weight of Parkin: 50-58 kDa.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

**DATA**

**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**SELECT PRODUCT CITATIONS**


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