

Parkin (H-300): sc-30130

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 6q25.2-27, 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.

REFERENCES

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CHROMOSOMAL LOCATION

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

SOURCE

Parkin (H-300) is a rabbit polyclonal antibody raised against amino acids 61-360 mapping within an internal region of Parkin of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

Parkin (H-300) 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Parkin (H-300) is also recommended for detection of Parkin in additional species, including equine.

Suitable for use as control antibody for Parkin siRNA (h): sc-42158, Parkin siRNA (m): sc-42159, Plasmid (h): sc-42158-SH, Parkin shRNA Plasmid (m): sc-42159-SH, Parkin shRNA (h) Lentiviral Particles: sc-42158-V and Parkin shRNA (m) Lentiviral Particles: sc-42159-V.

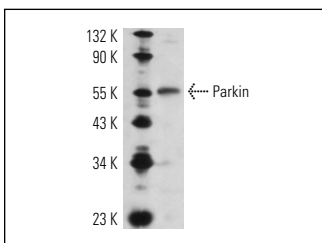
Molecular Weight of Parkin: 50-58 kDa.

Positive Controls: SH-SY5Y cell lysate: sc-3812, IMR-32 cell lysate: sc-2409 or mouse brain extract: sc-2253.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/ 2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Parkin (H-300): sc-30130. Western blot analysis of Parkin expression in SH-SY5Y whole cell lysate.

RESEARCH USE

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



Try **Parkin (PRK8): sc-32282** or **Parkin (D-1): sc-133167**, our highly recommended monoclonal alternatives to Parkin (H-300). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **Parkin (PRK8): sc-32282**.