Parkin (phospho Ser131) rabbit pAb

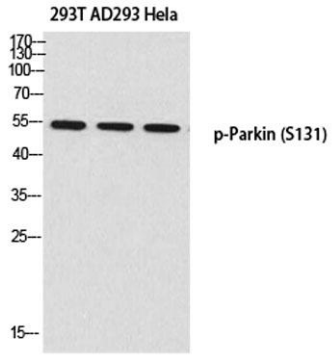
Cat#: orb769353 (Manual)

For research use only. Not intended for diagnostic use.

Product Name	Parkin (phospho Ser131) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human Parkin around the phosphorylation site of Ser131. AA range:101-150
Specificity	Phospho-Parkin (S131) Polyclonal Antibody detects endogenous levels of Parkin protein only when phosphorylated at S131.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	E3 ubiquitin-protein ligase parkin
Gene Name	PARK2
Cellular localization	Cytoplasm, cytosol . Nucleus . Endoplasmic reticulum . Mitochondrion . Mitochondrion outer membrane . Cell projection, neuron projection . Cell junction, synapse, postsynaptic density . Cell junction, synapse, presynapse . Mainly localizes in the cytosol (PubMed:19029340, PubMed:19229105). Co-localizes with SYT11 in neutrites (PubMed:12925569). Co-localizes with SNCAIP in brainstem Lewy bodies (PubMed:10319893, PubMed:11431533). Translocates to dysfunctional mitochondria that have lost the mitochondrial membrane potential; recruitment to mitochondria is PINK1-dependent (PubMed:24898855, PubMed:18957282, PubMed:19966284, PubMed:23620051). Mitochondrial localization also

gradually increases with cellular growth (PubMed:22082830). .

Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	51kD
Human Gene ID	5071
Human Swiss-Prot Number	O60260
Alternative Names	PARK2; PRKN; E3 ubiquitin-protein ligase parkin; Parkinson juvenile disease protein 2; Parkinson disease protein 2
Background	The precise function of this gene is unknown; however, the encoded protein is a component of a multiprotein E3 ubiquitin ligase complex that mediates the targeting of substrate proteins for proteasomal degradation. Mutations in this gene are known to cause Parkinson disease and autosomal recessive juvenile Parkinson disease. Alternative splicing of this gene produces multiple transcript variants encoding distinct isoforms. Additional splice variants of this gene have been described but currently lack transcript support. [provided by RefSeq, Jul 2008],



Western blot analysis of 293T AD293 Hela using p-Parkin (S131) antibody. Antibody was diluted at 1:500

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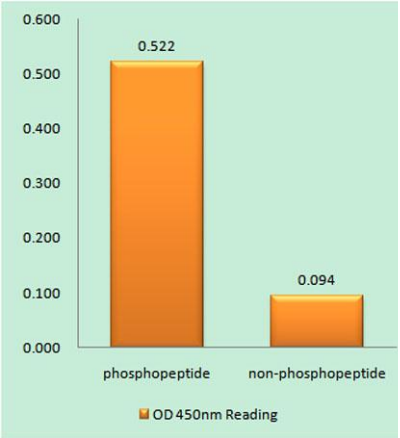
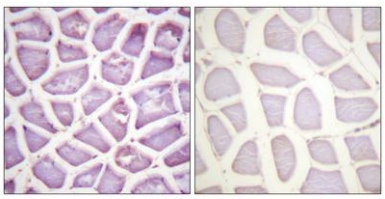


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Parkin (Phospho-Ser131) Antibody



Immunohistochemistry analysis of paraffin-embedded human skeletal muscle, using Parkin (Phospho-Ser131) Antibody. The picture on the right is blocked with the phospho peptide.

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