

Datasheet for ABIN361515
anti-Parkin antibody (pSer378)



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2 Images

Overview

Quantity:	100 µL
Target:	Parkin (PARK2)
Binding Specificity:	pSer378
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Parkin antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser378 conjugated to KLH
Specificity:	Specific for the ~52k parkin protein phosphorylated at Ser378. Immunolabeling of the parkin band is absent in parkin S378 mutants.
Cross-Reactivity:	Human
Purification:	Antigen Affinity Purified

Target Details

Target:	Parkin (PARK2)
Alternative Name:	PARK2 (PARK2 Products)

Target Details

Background: Parkin is an E3 ligase in the ubiquitin-proteasome system. Hereditary Parkinson's disease is most commonly caused by mutations in the parkin gene and is characterized by the progressive loss of dopaminergic neurons and the presence of Lewy bodies in the substantia nigra (Jenner et al., 1992). Recent evidence suggests that phosphorylation of parkin at Ser378 may have an important regulatory role on its E3 ubiquitin ligase activity (Yamamoto et al., 2005). Anti-Phospho-Ser378 Parkin Western blot of HEK293 cells transfected with Parkin WT (Phospho) and Parkin S378 mutant (non-phospho) showing the phospho-specific immunolabeling of the ~ 52 k parkin protein. The immunolabeling is absent in the parkin S378 mutant.

Molecular Weight: 52 kDa

Gene ID: 5071

UniProt: [O60260](#)

Pathways: [Autophagy, Ubiquitin Proteasome Pathway](#)

Application Details

Application Notes: Recommended Dilution: WB: 1:1000 Quality Control: Western blots performed on each lot.

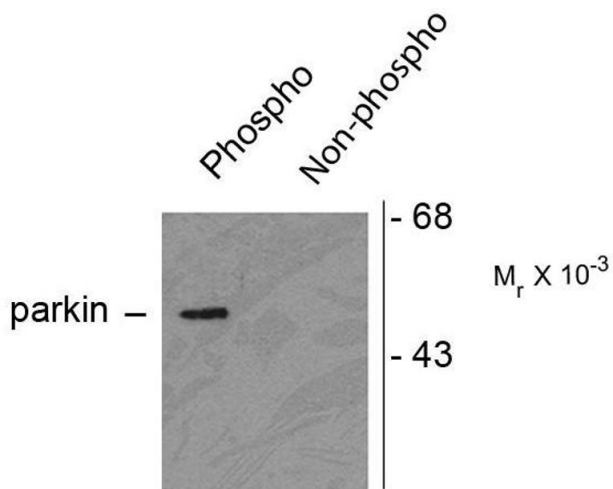
Restrictions: For Research Use only

Handling

Format: Liquid

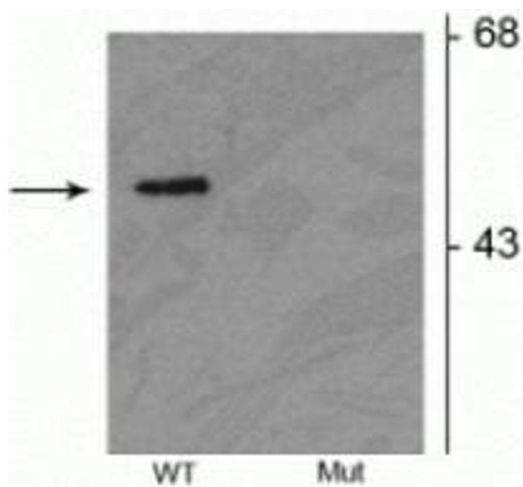
Buffer: 100 µL in 10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50 % glycerol.

Storage: -20 °C



Western Blotting

Image 1. Western blots of HEK293 cells transfected with Parkin WT (Phospho) and Parkin S378 mutant (non-phospho) showing the phospho-specific immunolabeling of the ~ 52 k parkin protein. The immunolabeling is absent in the parkin S378 mutant.



Western Blotting

Image 2. Western blot of HEK293 cells transfected with Parkin wild type (WT) and Parkin S378 mutant(Mut) showing the specific immunolabeling of the ~52 kDa parkin protein phosphorylated at Ser378.