SignalChem
Specialists in Signaling Proteins
1-866-9 KINASE (54-6273)

| Catalogue # | Aliquot Size |
|---|---|
| P215-65BR-100 | 100 µl |

# Anti-phospho-Parkin (Ser378)

Rabbit Polyclonal Antibody

**Catalog # P215-65BR**
*Lot # J1274-29*

## Cited Applications

WB

*Suggested Dilutions:*
*WB 1:1,000*

*Ideal working dilutions for each application should be empirically determined by the investigator.*

## Specificity

Recognizes the Parkin protein phosphorylated at serine 378

## Cross Reactivity

Human

## Host/Isotype/Clone#

Rabbit, IgG

## Immunogen

Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser378 conjugated to KLH

## Formulation

100 µl in 10 mM HEPES (pH 7.5), 150 mMNaCl, 100 µg per ml BSA and 50% glycerol.

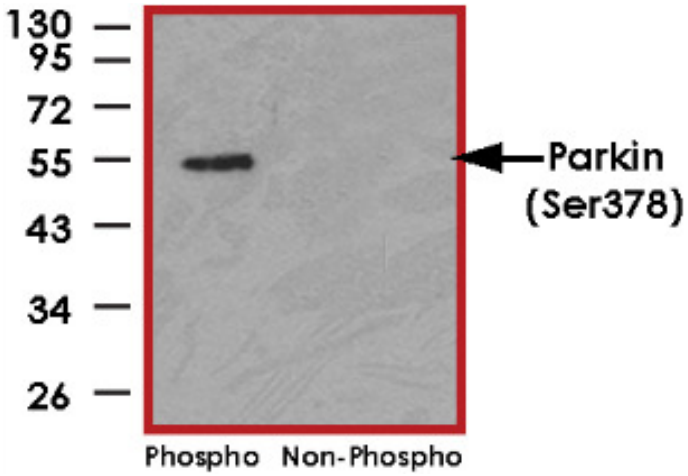
## Scientific Background

The Parkin protein is a component of the E3 ubiquitin ligase complex, which is responsible for targeting of proteins for degradation. Hereditary Parkinson's disease is most commonly caused by mutations in the parkin gene. The disease is characterized by the progressive loss of dopaminergic neurons and the presence of Lewy bodies in the substanianigra (1). Recent studies indicate that phosphorylation of Parkin at Ser101 and Ser378 might be important for regulating E3 ubiquitin ligase activity (2).

## References


1. Jenner P. et al: Oxidative stress as a cause of nigral cell death in Parkinson's disease and incidental Lewy body disease. Ann Neurol. 32 Suppl: S82-7, 1992.
2. Yamamoto A. et al: Parkin phosphorylation and modulation of its E# ubiquitin ligase activity. J Biol Chem. 280(5):3390-9, 2005.


## Sample Data




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


# Anti-phospho-Parkin (Ser378)

Rabbit Polyclonal Antibody


| | |
|---|---|
| Catalog Number | P215-65BR |
| Specific Lot Number | J1274-29 |
| Purification | Affinity chromatography |
| Stability | 1yr at –20°C from date of shipment |
| Storage & Shipping | Store product at –20°C. For optimal storage, aliquot antibody into smaller quantities after centrifugation and store at recommended temperature. For optimal performance, avoid repeated handling and multiple freeze/thaw cycles. Product shipped on ice packs. |


To place your order, please contact us by phone 1-(604)-232-4600, fax 1-604-232-4601 or by email: orders@signalchem.com
www.signalchem.com



**FOR IN VITRO RESEARCH PURPOSES ONLY. NOT INTENDED FOR USE IN HUMAN OR ANIMALS.**