

Datasheet for 609-401-E07**Parkin phospho S378 Antibody****Overview**

Description:	Anti-Parkin pS378 (RABBIT) Antibody - 609-401-E07
Item No.:	609-401-E07
Size:	100 µL
Applications:	WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Parkin pS378 Antibody detects Parkin pS378 protein. 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. Recent evidence suggests that phosphorylation of parkin at Ser378 may have an important regulatory role on its E3 ubiquitin ligase activity. Anti-Parkin pS378 Antibody is ideal for investigators involved in Neuroscience, Signal Transduction, and Apoptosis research.
Synonyms:	rabbit anti-Parkin pS101 Antibody, E3 ubiquitin-protein ligase parkin, Parkin, Parkin RBR E3 ubiquitin-protein ligase, Parkinson juvenile disease protein 2, Parkinson disease protein 2, PRKN, PARK2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PRKN
Reactivity:	Human
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Parkin pS378 Antibody was produced by repeated immunizations with synthetic phosphopeptide corresponding to amino acid residues surrounding Ser378.
Purity/Specificity:	Anti-Parkin pS378 antibody is directed against human Parkin protein. The antibody was prepared from monospecific antiserum by immunoaffinity chromatography using phosphopeptide coupled to agarose beads followed by solid phase adsorption(s) against non-phosphopeptide and non-specific peptide to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum. Immunolabeling of the parkin band is absent in parkin S378 mutants. This antibody is directed against human parkin proteins phosphorylated at Ser378. Cross reactivity with Parkin from other species has not been determined.
Relevant Links:	• UniProtKB - O60260 • GeneID - 5071 • NCBI - BAA25751.1

Application Details

Tested Applications:	WB
Application Note:	Anti-Parkin pS378 Antibody is tested for use in Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band of approximately 52 kDa in size corresponding to parkin protein phosphorylated at Ser378 in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:1000

Formulation

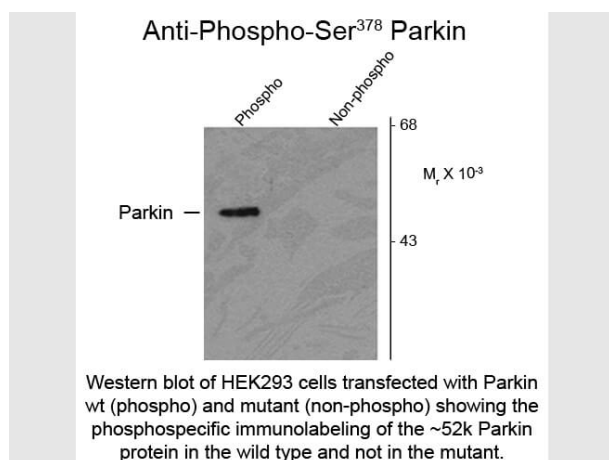
Physical State:	Liquid
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Rabbit anti-Parkin pS378 antibody. Lane 1: HEK293 cells transfected with Parkin WT (Phospho). Lane 2: HEK293 cells transfected with Parkin S378 mutant (non-phospho). Load: 10 µg per lane. Primary antibody: Parkin pS378 antibody at 1:1,000 for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 52 kDa for Parkin pS378. Other band(s): none.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.