

Datasheet for 600-403-263**Phosphothreonine Antibody Peroxidase Conjugated****Overview**

Description:	Anti-PhosphoThreonine (pT) (RABBIT) Antibody Peroxidase Conjugated - 600-403-263
Item No.:	600-403-263
Size:	100 µg
Applications:	ELISA, WB, IP
Reactivity:	Phosphothreonine
Host Species:	Rabbit

Product Details

Background:	Phospho-Threonine Antibody detects proteins and peptides phosphorylated at threonine residues in a manner largely independent of the surrounding amino acid sequence. Phosphorylation of threonine residues is associated with many growth factors and oncogene protein kinases, and is important for cell signaling in activation, proliferation and differentiation.
Synonyms:	Phospho-Threonine Antibody, Phospho-Threonine ELISA, HRP Phospho Threonine (pT) antibody, PhosphoThreonine (pT) polyclonal antibody
Host Species:	Rabbit
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Reactivity:	Phosphothreonine
Immunogen Type:	Other
Immunogen:	Phospho Site Specific affinity-purified antibody was prepared from whole rabbit serum produced by repeated immunizations with phosphothreonine conjugated KLH.

Purity/Specificity:	This product was prepared from monospecific antiserum by immunoaffinity chromatography using phosphorylated threonine peptide coupled to agarose followed by conjugation to horseradish peroxidase and subsequent purification. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit IgG and anti-Peroxidase. Reactivity is specific for phosphothreonine and minimal cross reactivity is observed against phosphotyrosine or phosphoserine.
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Relevant Links:	• 600-403-263 SDS
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Application Details

Tested Applications:	ELISA, WB
Suggested Applications:	IP (Based on references)
Application Note:	Phospho Site Specific Threonine affinity purified antibody is suitable for use in ELISA and western blotting assays. The antibody reacts specifically with phosphothreonine and shows minimal reactivity by ELISA and western blotting with proteins containing phosphotyrosine or phosphoserine residues. The antibody reacts with free phosphothreonine, phosphothreonine conjugated to carriers such as thyroglobulin or BSA, and detects the presence of phosphothreonine proteins in both unstimulated and stimulated cell lysates. Although not tested, this antibody is likely functional in RIA, flow cytometry and immunohistochemistry.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:1,000
IHC:	User Optimized
IP:	User Optimized
WB:	1:500

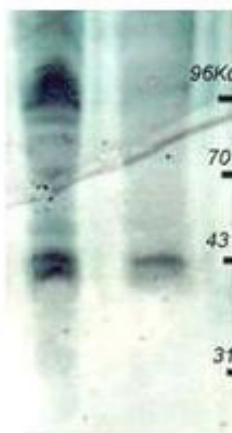
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.25 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	None
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Rockland's unconjugated Affinity Purified anti-phosphothreonine (pT) antibody is shown to detect phosphorylated proteins present in mouse spleen cell lysates. Left Lane: extract of spleen from mouse treated with vanadium. Right lane: extract of spleen from untreated mouse.

References

- Puttagunta R et al. PCAF-dependent epigenetic changes promote axonal regeneration in the central nervous system. *Nat Commun.* (2014)

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.