

Product datasheet for **AP03034SU-N**

Phosphothreonine Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IP, WB
Recommended Dilution:	ELISA: 0.5 µg/ml (Ref.5) Western blot: 2 µg/ml (Ref.5). 2 µg/mL of this antibody was sufficient for detection of phosphorylation signal in western blot analysis using mouse spleen extract treated with Vanadium. Immunoprecipitation: 10 µg/mg sample.
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Phosphothreonine conjugated to KLH
Specificity:	This antibody recognizes proteins phosphorylated on Threonine residues (Species Independent). Does not cross-react with Phosphotyrosine.
Formulation:	PBS State: Purified State: Liquid purified Ig fraction Stabilizer: 50% Glycerol Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2–8°C for one week or (in aliquots) at –20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



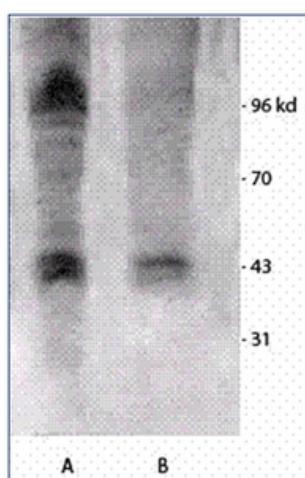
Background:

Protein phosphorylation is an important posttranslational modification that serves many key functions to regulate a protein's activity, localization, and protein-protein interactions. Phosphorylation is catalyzed by various specific protein kinases, which involves removing a phosphate group from ATP and covalently attaching it to a recipient protein that acts as a substrate. Most kinases act on both serine and threonine; others act on tyrosine, and a number (dual specificity kinases) act on all three. Because phosphorylation can occur at multiple sites on any given protein, it can therefore change the function or localization of that protein at any time (1).

Changing the function of these proteins has been linked to a number of diseases, including cancer, diabetes, heart disease, inflammation and neurological disorders (2-4).

Note:

Centrifuge vial before opening.

Product images:

Western blot analysis of Mouse brain extract cells with Rabbit anti-Phosphothreonine Antibody Cat.-No AP03034SU-N. Left: Treated with Vanadium. Right: Non-treated.