abcam

Product datasheet

Anti-Phospho - (Ser/Thr) antibody ab117253

1 Abreviews 13 References

Overview

Product name	Anti-Phospho - (Ser/Thr) antibody
Description	Rabbit polyclonal to Phospho - (Ser/Thr)
Host species	Rabbit
Tested applications	**Suitable for:** ELISA, Dot blot
Species reactivity	**Reacts with:** Species independent
Immunogen	Phosphoserine/threonine conjugated with R-PE.
General notes	Buffers and proteins which contain phosphate should be avoided with this antibody. Certain proteins known to contain phosphorylated serine and threonine may not be detected by this antibody due to steric hindrance. The immunogen used is Phosphoserine and phosphothreonine conjugated with R-PE.

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.05% Sodium azide Constituents: 0.16% Tris HCl, 0.88% Sodium chloride
Purity	Protein A purified
Clonality	Polyclonal

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab117253 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		1/10000 - 1/50000.
Dot blot		Use at an assay dependent dilution.

Target

Relevance A hallmark of signal transduction pathways is the reversible phosphorylation of serine and threonine residues within specific sequences, or motifs, in target proteins. Specific signaling motifs include not only sequences that are recognized by protein kinases, but also those that are recognized by phosphorylation-dependent binding proteins like 14-3-3. These modular phosphoprotein interacting domains are critical elements in modulating, directing and amplifying intracellular communications. Many critical protein kinases can be regulated by phosphorylation at a specific serine or threonine surrounded by phenylalanine or tyrosine. For example, Akt, an important kinase that regulates cell survival, is activated by phosphorylation at Ser473, a site surrounded by phenylalanine and tyrosine. RSK1, p70 S6 K, and certain PKC isoforms also contain a similar consensus phosphorylation site. Phosphorylation of these sites is required for kinase activity.

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- Response to your inquiry within 24 hours
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