

Product datasheet

Anti-14-3-3 Binding Domain (phospho S) antibody ab14127

1 References

Overview

Product name	Anti-14-3-3 Binding Domain (phospho S) antibody
Description	Rabbit polyclonal to 14-3-3 Binding Domain (phospho S)
Host species	Rabbit
Specificity	Ab14127 binds peptides and proteins containing a motif composed of phospho-Ser with proline at the +2 position and arginine or lysine at the -3 position. Antibody binding is phospho-specific and largely independent of other surrounding amino acids. The antibody weakly crossreacts with sequences containing phospho-Thr instead of phospho-Ser in this motif and with sequences containing phospho-Ser surrounded by Phe at the +1 position and Arg/Lys at the -3 position. No crossreactivity is observed with corresponding nonphosphorylated sequences or with other phospho-Thr/Ser/Tyr-containing motifs. By ELISA ab14127 recognizes a wide range of peptides containing the 14-3-3 binding motif and by 2D gel Western blot analysis it recognizes a large number of presumptive 14-3-3 binding proteins.
Tested applications	Suitable for: WB, IP, IHC-P, ELISA
Species reactivity	Reacts with: Species independent
Immunogen	Synthetic peptide corresponding to 14-3-3 Binding Domain (phospho S).
General notes	<p>This antibody provides a powerful tool for the discovery and characterization of potential 14-3-3 binding proteins containing this motif and for high throughput drug discovery.</p> <p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Storage buffer	pH: 7.50 Constituents: 0.238% HEPES, 50% Glycerol, 0.87% Sodium chloride, BSA
Purity	Protein A purified
Primary antibody notes	This antibody provides a powerful tool for the discovery and characterization of potential 14-3-3 binding proteins containing this motif and for high throughput drug discovery.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab14127 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
WB		1/1000. Predicted molecular weight: 30 kDa.
IP		1/50. On denatured proteins.
IHC-P		1/100.
ELISA		1/1000.

Target

Relevance The 14-3-3 proteins are a highly conserved family of proteins involved in the regulation of cell survival, apoptosis, proliferation and checkpoint control. Biological regulation by 14-3-3 is mediated through phosphorylation-dependent protein-protein interactions. Two different phospho-Ser-containing motifs are found within nearly all known 14-3-3 binding proteins. Motif 1 (Arg/Lys and Ser at positions -3 and -2, phospho-Ser at position 0, and Pro at position +2) is found in critical regulatory proteins including Bad, cdc25c, FKHL1, PKC and c-Raf.

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