

Product datasheet

Anti-53BP1 (phospho S25) antibody ab82550

2 References 2 Images

Overview

<b>Product name</b>	Anti-53BP1 (phospho S25) antibody
<b>Description</b>	Rabbit polyclonal to 53BP1 (phospho S25)
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rabbit, Horse, Guinea pig, Cow, Dog, Pig, Chimpanzee, Baboon, Rhesus monkey, Gorilla, Orangutan 
<b>Immunogen</b>	Phosphorylated synthetic peptide corresponding to a portion of 53BP1 around serine 25 (NP_005648.1)
<b>Positive control</b>	Human colon adenocarcinoma tissue.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.09% Sodium azide Constituents: Tris buffered saline, 0.1% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	Affinity purified using an epitope specific to Phospho 53BP1 (S25) immobilized on solid support.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab82550** 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
IHC-P		1/100 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

## Target

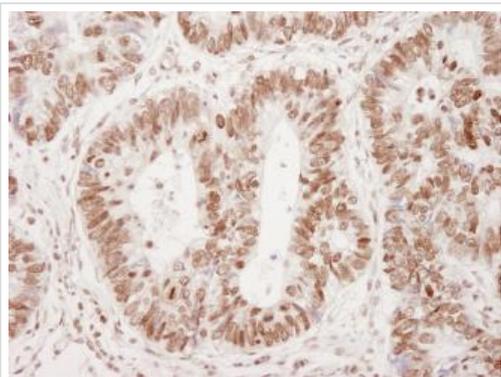
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<b>Function</b>	May have a role in checkpoint signaling during mitosis. Enhances TP53-mediated transcriptional activation. Plays a role in the response to DNA damage.
<b>Involvement in disease</b>	Note=A chromosomal aberration involving TP53BP1 is found in a form of myeloproliferative disorder chronic with eosinophilia. Translocation t(5;15)(q33;q22) with PDGFRB creating a TP53BP1-PDGFRB fusion protein.
<b>Sequence similarities</b>	Contains 2 BRCT domains.
<b>Post-translational modifications</b>	Asymmetrically dimethylated on Arg residues by PRMT1. Methylation is required for DNA binding. Phosphorylated at basal level in the absence of DNA damage. Hyper-phosphorylated in an ATM-dependent manner in response to DNA damage induced by ionizing radiation. Hyper-phosphorylated in an ATR-dependent manner in response to DNA damage induced by UV irradiation.
<b>Cellular localization</b>	Nucleus. Chromosome > centromere > kinetochore. Associated with kinetochores. Both nuclear and cytoplasmic in some cells. Recruited to sites of DNA damage, such as double strand breaks. Methylation of histone H4 at 'Lys-20' is required for efficient localization to double strand breaks.

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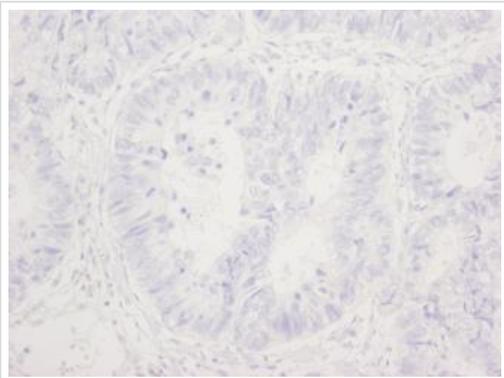
## Images

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ab82550, at a 1:250 dilution, staining Human 53BP1 (phospho Ser25) in colon adenocarcinoma (mock phosphatase treated section), using Immunohistochemistry, Formalin/PFA-fixed paraffin-embedded tissue.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-53BP1 (phospho S25) antibody (ab82550)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-53BP1 (phospho S25) antibody (ab82550)

ab82550, at a 1:250 dilution, staining Human 53BP1 (phospho Ser25) in colon adenocarcinoma (lambda and CIP phosphatase treated), using Immunohistochemistry, Formalin/PFA-fixed paraffin-embedded tissue,

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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