

## Product datasheet

# Anti-Survivin (phospho T34) antibody ab10720

### 4 References

#### Overview

<b>Product name</b>	Anti-Survivin (phospho T34) antibody
<b>Description</b>	Rabbit polyclonal to Survivin (phospho T34)
<b>Host species</b>	Rabbit
<b>Specificity</b>	Usage of this antibody has been limited to the detection of phosphorylated survivin recombinant protein and has not yet been successfully used to detect endogenous phosphorylated survivin.
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide.

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.1% Sodium Azide Constituents: Tris citrate/phosphate, pH 7-8
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

#### Applications

Our [Abpromise guarantee](#) covers the use of **ab10720** 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. Detects a band of approximately 20 kDa (predicted molecular weight: 17 kDa).

#### Target

<b>Function</b>	Component of the chromosomal passenger complex (CPC), a complex that acts as a key regulator of mitosis. The CPC complex has essential functions at the centromere in ensuring correct chromosome alignment and segregation and is required for chromatin-induced microtubule stabilization and spindle assembly. The complex with RAN plays a role in mitotic spindle formation by serving as a physical scaffold to help deliver the RAN effector molecule TPX2 to microtubules. May play a role in neoplasia. May counteract a default induction of apoptosis in G2/M phase. Inhibitor of caspase-3 and caspase-7. Isoform 2 and isoform 3 do not appear to play vital roles in mitosis. Isoform 3 shows a marked reduction in its anti-apoptotic effects when compared with the displayed wild-type isoform.
<b>Tissue specificity</b>	Expressed only in fetal kidney and liver, and to lesser extent, lung and brain. Abundantly expressed in adenocarcinoma (lung, pancreas, colon, breast, and prostate) and in high-grade lymphomas. Also expressed in various renal cell carcinoma cell lines.
<b>Sequence similarities</b>	Belongs to the IAP family. Contains 1 BIR repeat.
<b>Developmental stage</b>	Expression is cell cycle-dependent and peaks at mitosis.
<b>Domain</b>	The BIR repeat is necessary and sufficient for HBXIP binding.
<b>Post-translational modifications</b>	Ubiquitination is required for centrosomal targeting. In vitro phosphorylation at Thr-117 by AURKB/STK12 prevents interaction with INCENP and localization to mitotic chromosomes.
<b>Cellular localization</b>	Cytoplasm. Nucleus. Chromosome. Chromosome > centromere. Cytoplasm > cytoskeleton > spindle. Localizes on chromosome arms and inner centromeres from prophase through metaphase and then transferring to the spindle midzone and midbody from anaphase through cytokinesis. Colocalizes with AURKB at mitotic chromosomes.

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