

Product datasheet

Human Survivin 2B peptide ab13762

1 References

Description

Product name	Human Survivin 2B peptide
Animal free	No
Nature	Synthetic
Species	Human

Specifications

Our [Abpromise guarantee](#) covers the use of **ab13762** in the following tested applications.

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

Applications	Blocking
Form	Liquid
Additional notes	<ul style="list-style-type: none"> - First try to dissolve a small amount of peptide in either water or buffer. The more charged residues on a peptide, the more soluble it is in aqueous solutions. - If the peptide doesn't dissolve try an organic solvent e.g. DMSO, then dilute using water or buffer. - Consider that any solvent used must be compatible with your assay. If a peptide does not dissolve and you need to recover it, lyophilise to remove the solvent. - Gentle warming and sonication can effectively aid peptide solubilisation. If the solution is cloudy or has gelled the peptide may be in suspension rather than solubilised. - Peptides containing cysteine are easily oxidised, so should be prepared in solution just prior to use.

Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.
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General Info

Relevance	Survivin, a new inhibitor of apoptosis (IAP) protein, is expressed in the G2 / M phase of the cell
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cycle in a cycle regulated manner. At the beginning of mitosis, survivin associates with microtubules of the mitotic spindle in a specific and saturable reaction that is regulated by microtubule dynamics. Disruption of survivin microtubule interactions results in loss of survivin's anti-apoptosis function and increased caspase 3 activity, a mechanism involved in cell death, during mitosis. It indicates that survivin may counteract a default induction of apoptosis in G2 / M phase. The over-expression of survivin in cancer may overcome this apoptotic checkpoint and favour aberrant progression of transformed cells through mitosis. Survivin DEx3 (lacking exon 3) and survivin-2B (retaining a part of intron 2 as a cryptic exon) are isoforms of survivin that behave differently to survivin. Survivin-2B has acquired additional 23 amino acids encoded by the cryptic exon 2B. See Mahotka et al. 1999 for more details. 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.

Cellular localization

Nuclear (chromosome arms and centromeres) during prophase and metaphase; Cytoplasmic (mitotic spindle) during anaphase and telophase.

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