

## Product datasheet

# Human PTIP peptide ab13757

### 1 图像

#### 描述

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产品名称	人PTIP多肽
纯度	> 90 % HPLC.
Accession	<u><a href="#">Q6ZW49-6</a></u>
无动物成分	No
性质	Synthetic
种属	Human

#### 技术指标

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Our **Abpromise guarantee** covers the use of **ab13757** in the following tested applications.

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

应用	Blocking
形式	Liquid
补充说明	<p>This peptide sequence is present in isoforms 1 (Q6ZW49-6) &amp; 2 (Q6ZW49-1) (121 and 118 kDa respectively).</p> <ul style="list-style-type: none"><li>- 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.</li><li>- If the peptide doesn't dissolve try an organic solvent e.g. DMSO, then dilute using water or buffer.</li><li>- 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.</li><li>- 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.</li><li>- Peptides containing cysteine are easily oxidised, so should be prepared in solution just prior to use.</li></ul>

#### 制备和贮存

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稳定性和存储	<p>Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.</p> <p>Information available upon request.</p>
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## 常规信息

### 功能

Involved in DNA damage response and in transcriptional regulation through histone methyltransferase (HMT) complexes. Plays a role in early development. In DNA damage response is required for cell survival after ionizing radiation. In vitro shown to be involved in the homologous recombination mechanism for the repair of double-strand breaks (DSBs). Its localization to DNA damage foci requires RNF8 and UBE2N. Recruits TP53BP1 to DNA damage foci and, at least in particular repair processes, effective DNA damage response appears to require the association with TP53BP1 phosphorylated by ATM at 'Ser-25'. Together with TP53BP1 regulates ATM association. Recruits PA1 to sites of DNA damage and the PA1:PAXIP1 complex is required for cell survival in response to DNA damage; the function is probably independent of MLL-containing histone methyltransferase (HMT) complexes. Promotes ubiquitination of PCNA following UV irradiation and may regulate recruitment of polymerase eta and RAD51 to chromatin after DNA damage. Proposed to be involved in transcriptional regulation by linking MLL-containing histone methyltransferase (HMT) complexes to gene promoters by interacting with promoter-bound transcription factors such as PAX2. Associates with gene promoters that are known to be regulated by MLL2. During immunoglobulin class switching in activated B cells is involved in trimethylation of histone H3 at 'Lys-4' and in transcription initiation of downstream switch regions at the immunoglobulin heavy-chain (Igh) locus; this function appears to involve the recruitment of MLL-containing HMT complexes.

### 序列相似性

Contains 6 BRCT domains.

### 结构域





The BRCT 5 and 6 domains function as a single module and are necessary and sufficient for in vitro phospho-specific binding (substrates phosphorylated by the kinases ataxia telangiectasia-mutated (ATM), ataxia telangiectasia and RAD3-related (ATR) in response to gamma irradiation). In contrast, in vivo two pairs of BRCT domains (3-6) bind to phosphorylated TP53BP1 much more efficiently.

### 细胞定位

Nucleus matrix. Localizes to DNA damage foci upon ionizing radiation.

## 图片

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Human PTIP peptide (ab13757)

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