

## Recombinant Human CBX1, GST-tagged

Cat. No. CBX1-10766H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CBX1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	6-185a.a.
<b>Description</b>	<p>Calpains are ubiquitous, well-conserved family of calcium-dependent, cysteine proteases. The calpain proteins are heterodimers consisting of an invariant small subunit and variable large subunits. The large subunit possesses a cysteine protease domain, and both subunits possess calcium-binding domains. Calpains have been implicated in neurodegenerative processes, as their activation can be triggered by calcium influx and oxidative stress. The protein encoded by this gene is highly expressed in the placenta. Its C-terminal region lacks any homology to the calmodulin-like domain of other calpains. The protein lacks critical active site residues and thus is suggested to be proteolytically inactive. The protein may play a role in tumor formation by inhibiting apoptosis and promoting angiogenesis.</p>
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

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## GENE INFORMATION

<b>Gene Name</b>	CBX1 chromobox homolog 1 [ Homo sapiens ]
<b>Official Symbol</b>	CBX1
<b>Synonyms</b>	CBX1; chromobox homolog 1; chromobox homolog 1 (Drosophila HP1 beta); chromobox protein homolog 1; CBX; HP1 beta homolog (Drosophila ); HP1 BETA; HP1Hs beta; M31; MOD1; HP1 beta homolog; modifier 1 protein; heterochromatin protein 1-beta; heterochromatin protein p25 beta; heterochromatin protein 1 homolog beta; chromobox homolog 1 (HP1 beta homolog Drosophila ); p25beta; HP1-BETA; HP1Hsbeta; HP1Hs-beta;
<b>Gene ID</b>	10951
<b>mRNA Refseq</b>	NM_001127228
<b>Protein Refseq</b>	NP_001120700
<b>MIM</b>	604511
<b>UniProt ID</b>	P83916
<b>Chromosome Location</b>	17q21.32
<b>Function</b>	chromatin binding; enzyme binding; identical protein binding; protein binding;

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