

## Cystatin B rabbit pAb

**Cat#: orb771642 (Manual)**

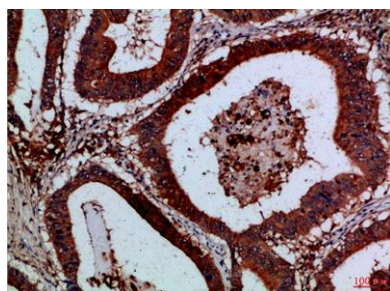
For research use only. Not intended for diagnostic use.

<b>Product Name</b>	Cystatin B rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Rat;Mouse;
<b>Recommended dilutions</b>	IHC-p 1:50-200, ELISA 1:10000-20000
<b>Immunogen</b>	Synthetic peptide from human protein at AA range: 20-60
<b>Specificity</b>	The antibody detects endogenous Cystatin B
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Cystatin-B (CPI-B) (Liver thiol proteinase inhibitor) (Stefin-B)
<b>Gene Name</b>	CSTB CST6 STFB
<b>Cellular localization</b>	Cytoplasm . Nucleus .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal

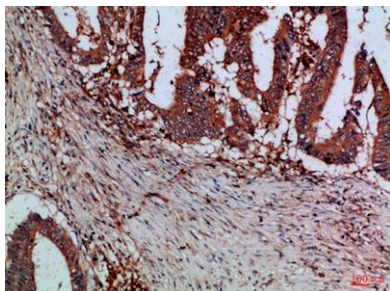
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	
<b>Human Gene ID</b>	1476
<b>Human Swiss-Prot Number</b>	P04080
<b>Alternative Names</b>	Cystatin-B (CPI-B;Liver thiol proteinase inhibitor;Stefin-B)

### Background

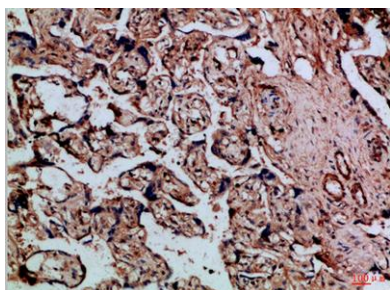
The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 1 cystatins (stefins), type 2 cystatins and kininogens. This gene encodes a stefin that functions as an intracellular thiol protease inhibitor. The protein is able to form a dimer stabilized by noncovalent forces, inhibiting papain and cathepsins l, h and b. The protein is thought to play a role in protecting against the proteases leaking from lysosomes. Evidence indicates that mutations in this gene are responsible for the primary defects in patients with progressive myoclonic epilepsy (EPM1). One type of mutation responsible for EPM1 is the expansion in the promoter region of this gene of a CCCCCCCCCGCG rep



Immunohistochemical analysis of paraffin-embedded Human-colon-cancer, antibody was diluted at 1:100



**Immunohistochemical analysis of paraffin-embedded Human-colon-cancer, antibody was diluted at 1:100**



**Immunohistochemical analysis of paraffin-embedded Human-placenta, antibody was diluted at 1:100**