

## Product datasheet for **TA351119**

### Stefin B (CSTB) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 200-1000 WB positive control: Mouse spleen tissue IHC: 25-100 Positive control: Human brain Predicted cell location: Cytoplasm and Nucleus
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide of human CSTB
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	11 kDa
Gene Name:	cystatin B
Database Link:	<a href="#">NP_000091</a> <a href="#">Entrez Gene 13014 Mouse</a> <a href="#">Entrez Gene 1476 Human</a> <a href="#">P04080</a>



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**Background:**

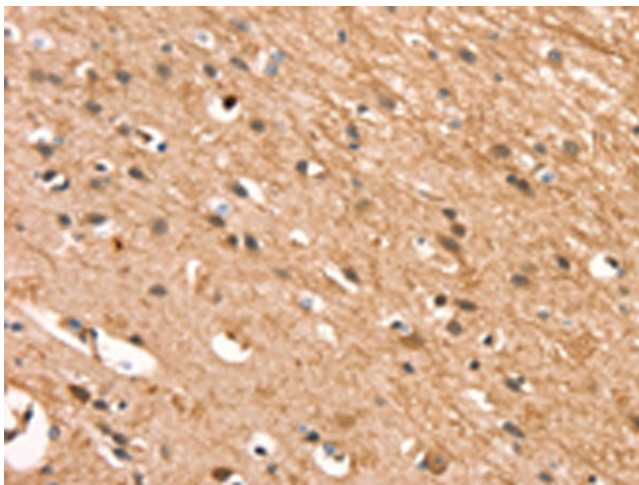
The cystatin superfamily encompasses proteins that contain multiple cystatin-like sequences. Some of the members are active cysteine protease inhibitors, while others have lost or perhaps never acquired this inhibitory activity. There are three inhibitory families in the superfamily, including the type 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 I, h and b. The protein is thought to play a role in protecting against the proteases leaking from lysosomes.

**Synonyms:**

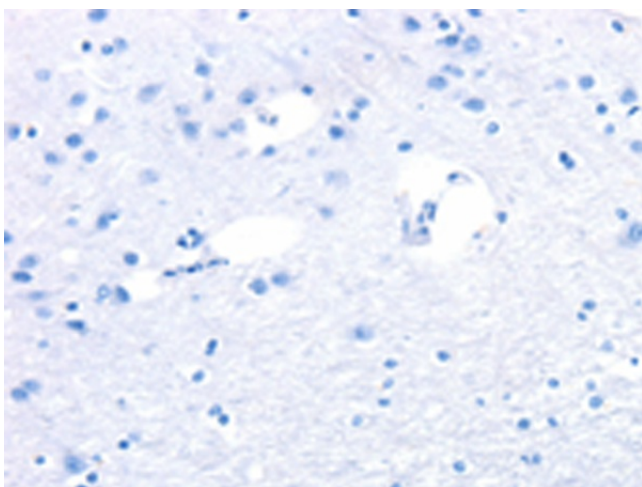
CPI-B; CST6; EPM1; EPM1A; PME; STFB; ULD

**Product images:**

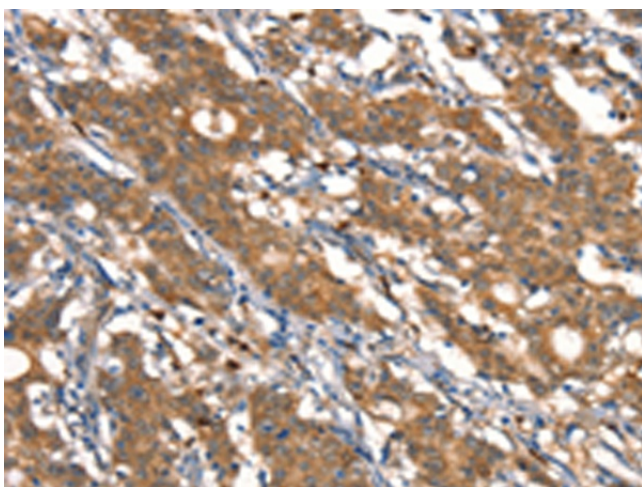
Gel: 10+12%SDS-PAGE  
Lysate: 40 µg  
Lane: Mouse spleen tissue  
Primary antibody: TA351119 (CSTB Antibody) at dilution 1/300  
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution  
Exposure time: 2.5 minutes



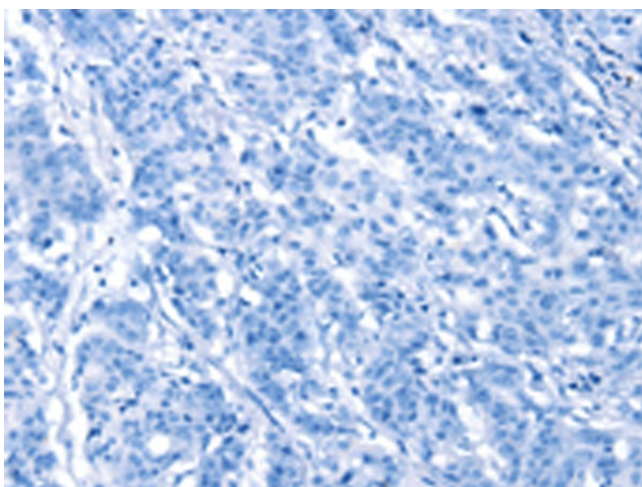
Immunohistochemistry of paraffin-embedded Human brain tissue using TA351119 (CSTB Antibody) at dilution 1/30 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human brain tissue using TA351119 (CSTB Antibody) at dilution 1/30, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using TA351119 (CSTB Antibody) at dilution 1/30 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using TA351119 (CSTB Antibody) at dilution 1/30, treated with synthetic peptide. (Original magnification:  $\times 200$ )