

**PAJ322Hu01**

**Polyclonal Antibody to Cystatin B (CSTB)**

**Organism Species: *Homo sapiens* (Human)**

***Instruction manual***

FOR RESEARCH USE ONLY

NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

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13th Edition (Revised in Aug, 2023)

### **[ PROPERTIES ]**

**Source:** Polyclonal antibody preparation

**Host:** Rabbit

**Purification:** Antigen-specific affinity chromatography followed by Protein A affinity chromatography

**Traits:** Liquid

**Concentration:** 0.5mg/mL

**UOM:** 100µl

**Cross Reactivity:**

**Applications:** WB;IHC;ICC/IF;FCM

### **[ IMMUNOGEN ]**

**Immunogen:** Recombinant CSTB (Met1~Phe98 (Accession # P04080)) expressed in *E.coli*

**Accession No.:** RPJ322Hu01

### **[ APPLICATIONS ]**

Western blotting: 0.01-2µg/mL;

Immunohistochemistry: 5-20µg/mL;

Immunocytochemistry: 5-20µg/mL;

For flow cytometry: 0.5-2 µg per 10<sup>6</sup> cells in 100 µl volume.

Optimal working dilutions must be determined by end user.

### **[ FORMULATION ]**

**Form & Buffer:** Supplied as solution form in 0.01M PBS, pH7.4, containing 0.05% Proclin-300, 50% glycerol.

### **[ STORAGE AND STABILITY ]**

**Storage:** Avoid repeated freeze/thaw cycles.

Store at 4°C for frequent use.

Aliquot and store at -20°C for 24 months.

**Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined

by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

**[ IDENTIFICATION ]**

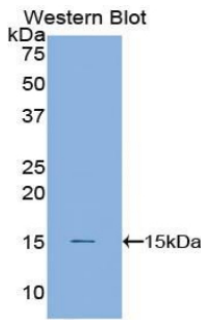
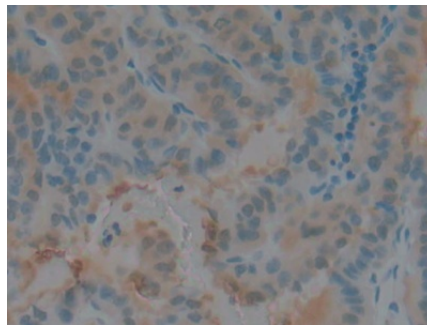
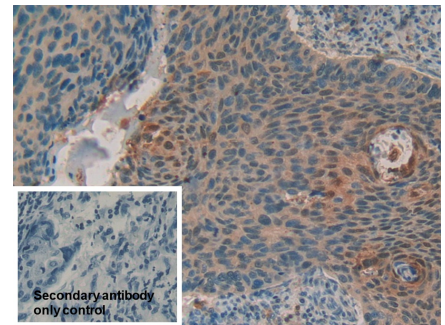


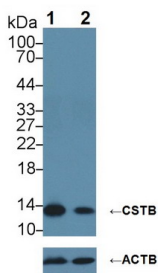
Figure. Western Blot; Sample: Recombinant CSTB, Human.



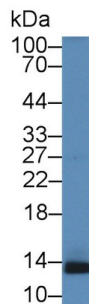
DAB staining on IHC-P; Samples: Human Thyroid Tissue; Primary Ab: 20µg/ml Rabbit Anti-Human CSTB Antibody Second Ab: 2µg/mL HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody (Catalog: SAA544Rb19)



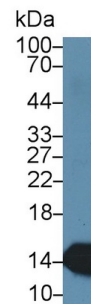
DAB staining on IHC-P; Sample: Human Esophagus cancer Tissue Primary Ab: 20µg/ml Rabbit Anti-Human CSTB Antibody Control: Used PBS instead of primary antibody Second Ab: 2µg/ml HRP-Linked Caprine Anti-Rabbit IgG Polyclonal Antibody (Catalog: SAA544Rb19)



Knockout Verification:  
Lane 1: Wild-type HepG2 cell lysate;  
Lane 2: CSTB knockout HepG2 cell lysate;  
Predicted MW: 11kDa

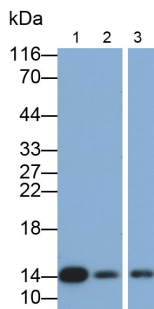


Western Blot; Sample: Human Liver lysate;  
Primary Ab: 2µg/ml Rabbit Anti-Human CSTB Antibody  
Second Ab: 0.2µg/mL HRP-Linked



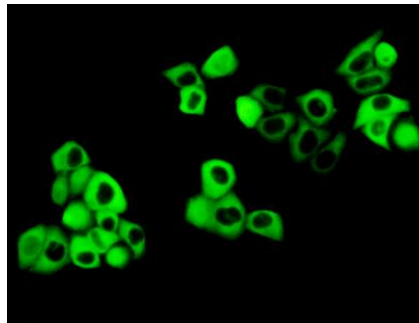
Western Blot; Sample: Human HepG2 cell lysate;  
Primary Ab: 2µg/ml Rabbit Anti-Human CSTB Antibody  
Second Ab: 0.2µg/mL HRP-Linked

Observed MW: 14kDa  
 Primary Ab: 2µg/ml Rabbit Anti-Human  
 CSTB Antibody  
 Second Ab: 0.2µg/mL HRP-Linked  
 Caprine Anti-Rabbit IgG Polyclonal  
 Antibody  
 (Catalog: SAA544Rb19)



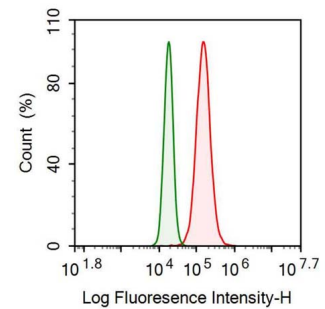
Western Blot; Samples: Lane1: HepG2  
 cell lysate; Lane2: MCF7 cell lysate;  
 Lane3: A549 cell lysate;  
 Primary Ab: 0.05µg/ml Rabbit Anti-  
 Human CSTB Antibody  
 Second Ab: 0.2µg/ml HRP-Linked  
 Caprine Anti-Rabbit IgG Polyclonal  
 Antibody  
 (Catalog: SAA544Rb19)

Caprine Anti-Rabbit IgG Polyclonal  
 Antibody  
 (Catalog: SAA544Rb19)



FITC staining on IF;  
 Sample: Human MCF7 cell;  
 Primary Ab: 10µg/ml Rabbit Anti-  
 Human CSTB Antibody  
 Second Ab: 1.3µg/ml FITC-Linked  
 Caprine Anti-Rabbit IgG Polyclonal  
 Antibody  
 (Catalog: SAA544Rb18)

Caprine Anti-Rabbit IgG Polyclonal  
 Antibody  
 (Catalog: SAA544Rb19)



Human A431 cell was fixed with 2%  
 paraformaldehyde (10 min) ,  
 permeabilised with 0.1% BSA-Triton  
 X-100, then stained with 20µg/ml rabbit  
 Anti-human CSTB Polyclonal Antibody  
 (Catalog PAJ322Hu01, red histogram)  
 or Isotype control antibody (Catalog  
 IS067-Rb01, green histogram), followed  
 by 1µg/ml FITC-conjugated Anti-rabbit  
 IgG Secondary Antibody (Catalog  
 SAA544Rb18).

**[ IMPORTANT NOTE ]**

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.