



## Anti-mouse CHST4 Antibody

### ORDERING INFORMATION

**Catalog Number:** AF5547

**Lot Number:** CDY101

**Size:** 100 µg

**Formulation:** 0.2 µm filtered solution in PBS with 5% trehalose

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** mouse CHST4

**Immunogen:** CHO cell-derived rmCHST4 (aa 30 - 388)

**Ig Type:** sheep IgG

**Applications:** Neutralization  
Western blot  
Direct ELISA

### Preparation

Produced in sheep immunized with purified, CHO cell-derived, recombinant mouse CHST4 (rmCHST4; aa Arg30 - Gly388; R&D Systems, Catalog # 5547-ST). Mouse CHST4 specific IgG was purified by mouse CHST4 affinity chromatography.

### Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

### Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/mL.

### Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C in a **manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### Specificity

This antibody has been selected for its ability to recognize mouse CHST4 in direct ELISAs and Western blots. In these formats, this antibody shows approximately 40% cross-reactivity with rhCHST4 and less than 5% cross-reactivity with rmCHST5 and rhCHST6.

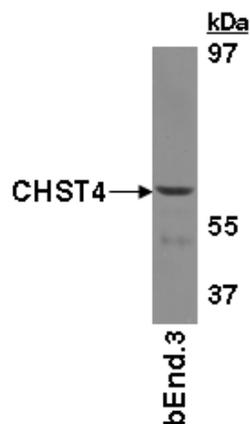
### Applications

**Neutralization** - This antibody has been used to inhibit/neutralize the enzymatic activity of rmCHST4 (R&D Systems, Catalog # 5547-ST). The enzyme at 8.33 µg/mL was preincubated with different amounts of the antibody (ranging from 1,000 to 0 µg/mL) at room temperature for 30 minutes. The enzyme was then assayed by following a protocol described for rmCHST4 (R&D Systems, Catalog # 5547-ST). 50% of the enzymatic activity was inhibited by the antibody at approximately 60 µg/mL (IC<sub>50</sub>). Considering the molecular masses of the enzyme (42 kDa) and the antibody (150 kDa), IC<sub>50</sub> was achieved at approximately 2:1 molar ratio of the antibody to the enzyme.

**Western blot** - An antibody concentration of 1.0 µg/mL is recommended.

**Direct ELISA** - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse CHST4. The detection limit for rmCHST4 is approximately 1 ng/well.

**Optimal dilutions should be determined by each laboratory for each application.**



### Detection of CHST4 with AF5547.

Cell lysates were resolved by SDS-PAGE, transferred to an Immobilon-P membrane and immunoblotted with 1.0 µg/mL sheep anti-mCHST4.