



## Mouse Anti-Human $\alpha$ 1-antichymotrypsin Monoclonal Antibody Datasheet

**Product Name:** mAb anti-Human  $\alpha$ 1-antichymotrypsin

**Clone No.:** 3E11

**Catalogue No.:** MO-M40098A

**Quantity:** 0.5 mg/vial

**Description:** Mouse monoclonal antibody to human  $\alpha$ 1-antichymotrypsin ( $\alpha$ 1-ACT).

**Purification:** Protein G affinity purified

**Product type:** Primary antibody

**Target Protein:** Human  $\alpha$ 1-antichymotrypsin

**Immunogen:** Human plasma derived  $\alpha$ 1-antichymotrypsin

**Fusion Myeloma:** Sp2/0-Ag14

**Specificity:** This antibody recognizes human  $\alpha$ 1-antichymotrypsin.

**Species Reactivity:** Human

**Host / Isotype:** Mouse, IgG1 Kappa

**Formulation:** Lyophilized from a solution in 0.01M PBS pH7.2

**Reconstitution:** Double distilled water is recommended to adjust the final concentration to 1mg/mL.

**Storage:** Store at -20°C

**Research Area:**  $\alpha$ 1-antichymotrypsin deficiency disorder. Alzheimer's disease

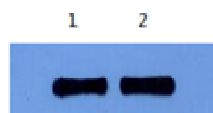
**Background:**  $\alpha$ 1-antichymotrypsin ( $\alpha$ 1-ACT) presents in plasma at an average concentration of 0.45mg/mL. It is a protease inhibitor for

chymotrypsin-like serine proteinases, such as cathepsin G in neutrophils and chymases in mast cells. The complex formed by  $\alpha$ 1-antichymotrypsin and prostate specific antigen ( $\alpha$ 1-ACT-PSA) has been used as a biomarker for prostate cancer.  $\alpha$ 1-ACT is produced in liver and is increased during acute phase reaction. Deficiency of this protein can cause liver disease and chronic obstructive pulmonary disease.

$\alpha$ 1-ACT is also found in neurofibrillary tangles and senile plaques in the brain lesions of Alzheimer's disease.

**Applications:** **Western Blot**

Detect  $\alpha$ 1-ACT using antibody 3E11 at 1:5000 (0.2 $\mu$ g/mL) dilution.



Lane 1 and 2:  $\alpha$ 1-ACT loaded at 20ng/well.

**ELISA**

**References:** If research is published using this product, please inform Anogen in order to cite the reference on this datasheet. Anogen will provide one unit of product in the same category as gratitude.

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