



# ANOGEN - A Division of YES Biotech Laboratories Ltd.

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

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

**Clone No.:** B2C3

**Catalogue No.:** MO-M40098B

**Quantity:** 0.5 mg/vial

**Description:** Mouse monoclonal antibody to human  $\alpha$ 1-antichymotrypsin

**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 reconstitute the antibody.

**Storage:** Store at -20°C

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

**Background:**  $\alpha$ 1-antichymotrypsin presents in plasma at an average concentration of 0.45 mg/mL. It is a protease inhibitor for chymotrypsin-like serine proteinases,

such as cathepsin G in neutrophils and chymases in mast cells. The protein is produced in liver and increases during acute phase reaction. Deficiency of this protein can cause liver disease and chronic obstructive pulmonary disease.  $\alpha$ 1-antichymotrypsin is found in neurofibrillary tangles and senile plaques in the brain lesions of Alzheimer's disease.

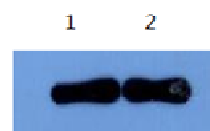
The  $\alpha$ 1-antichymotrypsin and PSA complex ( $\alpha$ 1-ACT-PSA) has been used as a biomarker for prostate cancer.

### Applications:

#### Western Blot:

Detect  $\alpha$ 1- antichymotrypsin ( $\alpha$ 1 ACT) using antibody B2C3 at 1:5000 (0.2 $\mu$ g/mL) dilution.

Western blot-  $\alpha$ 1-antichymotrypsin ( $\alpha$ 1 ACT)



1&2  $\alpha$ 1- antichymotrypsin ( $\alpha$ 1 ACT) 20 ng/well

### 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.

This product is for **LABORATORY RESEARCH USE** and further manufacture **ONLY**, and cannot be administrated to human and animals for use in diagnostic and therapeutic procedures.

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