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Mouse Anti-Human α1-antichymotrypsin Monoclonal Antibody Datasheet

Product Name: mAb anti-Human α1-antichymotrypsin **Clone No.: B7H2**

Catalogue No.: MO-M40098F **Quantity: 0.5 mg/vial**

Description: Mouse monoclonal antibody to human α1-antichymotrypsin (α1-ACT).

Purification: Protein G affinity purified

Product type: Primary antibody

Target Protein: Human α1-antichymotrypsin

Immunogen: Human plasma derived α1-antichymotrypsin

Fusion Myeloma: Sp2/0-Ag14

Specificity: This antibody recognizes human α1-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

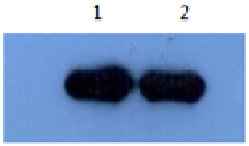
Research Area: α1-antichymotrypsin deficiency disorder. Alzheimer's disease

Background: α1-antichymotrypsin (α1-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 α1-antichymotrypsin and prostate specific antigen (α1-ACT-PSA) has been used as a biomarker for prostate cancer. α1-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.

α1-ACT is also found in neurofibrillary tangles and senile plagues in the brain lesions of Alzheimer's disease.

Applications: **Western Blot**

Detect α1-ACT using antibody B7H2 at 1:5000 (0.2 μg/mL) dilution.



Lane 1 and 2: α1- 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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