

**Mouse Anti-Alpha-1-Antichymotrypsin (SERPINA3) [AACT/1451]: MC0141, MC0141RTU7**

**Intended Use:** For Research Use Only

**Description:** Alpha-1-Antichymotrypsin (ACT) is a serine protease inhibitor. It forms a complex with serine protease, a prostate-specific antigen in human serum. ACT can be found in most cells of myeloid lineage and is, therefore, useful in the identification of neoplastic myeloid cells within extramedullary tissues such as acute myeloid leukemia. This enzyme is also localized in the spindle cells and round cells of true histiocytic lymphomas as well as in most thyroid papillary carcinomas. ACT is expressed in various normal and neoplastic cells.

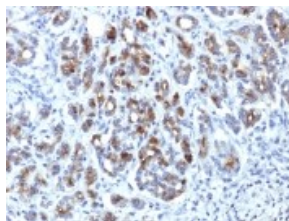
**Specifications:**

Clone: AACT/1451  
Source: Mouse  
Isotype: IgG1  
Reactivity: Human  
Localization: Cytoplasm  
Formulation: Antibody in PBS pH7.4, containing BSA and  $\leq 0.09\%$  sodium azide (NaN<sub>3</sub>)  
Storage: Store at 2°- 8°C  
Applications: IHC Flow Cyt., IF, WB  
Package:

Description	Catalog No.	Size
Alpha-1-Antichymotrypsin (SERPINA3) Concentrated	MC0141	1 ml
Alpha-1-Antichymotrypsin (SERPINA3) Prediluted	MC0141RTU7	7 ml

**IHC Procedure\*:**

Positive Control Tissue: Tonsil, Pancreas or Histiocytoma, HeLa Cells  
Concentrated Dilution: 50-200  
Pretreatment: Citrate pH6.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
Incubation Time and Temp: 30-60 minutes @ RT  
Detection: Refer to the detection system manual  
\* Result should be confirmed by an established diagnostic procedure.



FFPE human pancreas tissue stained with Alpha-1-Antichymotrypsin using DAB

**References:**

1. A clinical perspective on the utility of alpha 1 antichymotrypsin for the early diagnosis of calcific aortic stenosis. Martin-Rojas T, et al. Clin Proteomics 14:12, 2017.
2. Value of prostate specific antigen  $\alpha$ 1-antichymotrypsin complex for the detection of prostate cancer in patients with a PSA level of 4.1-10.0 ng/mL: comparison with PSA-related parameters. Miyake, H., et al. Int. J. Urol. 8: 589-593, 2001.

Doc. 100-MC0141  
Rev. A