ImmunoBioScience Corp. (IBSC) *DATA SHEET*Alpha-1-Antitrypsin (AAT), Polyclonal rabbit-anti-human

**Catalog number:** RP-4019-01 0.5 ml Concentrated IgG 2.0 mg/ml

RP-4019-02 1.0 ml Concentrated IgG 2.0mg/ml

RP-4019-04 7.0 ml Prediluted for IHC IgG 8µg/ml

**Buffer** Total IgG is purified by Protein A column and is supplied is with 1% BSA in PBS with 0.05% azide, pH 7.4. The Prediluted antibody is supplied in our Universal antibody dilution buffer (AR-6526) green in color.

**Description**: Alpha-1-Antitrypsin (AAT) is a 51 kDa glycoprotein synthesized in the liver. It is a serum protease inhibitor in neutrophil elastase, collagenase and chymotrypsin. This protein is a serum trypsin inhibitor, the correct name is alpha-1-proteinase inhibitor (A1PI). Disorders of this enzyme include, deficiency, in a hereditary disorder, this causes degradation of lung tissue and causes pulmonary emphysema, it also causes chronic liver disease and hepatocarcinoma. AAT is present in normal liver cells, histocytes, monocytes and a variety of epithelial and mesenchymal tumors. Increase in serum levels of AAT is also reported in rheumatoid arthritis, bacterial infection, vasculistis and carcinomatosis.

**Intended USE**: Immunohistochemistry (IHC) and Immunocytchemistry (ICC)

**Storage**: 2-8°C

**Epitope:** not determined.

**Molecular weight of antigen:** 51 kDa.

**Immunogen:** .Purified human ATT

**Species reactivity:** Human, others not tested.

**Cellular Localization:** Cytoplasmic staining of macrophages.

**Recommended positive control:** Human tonsil, liver.

**Application:** IHC, ICC (frozen or formalin–fixed paraffin-embedded (FFPE) tissue sections, cell smears) 1:50-1:200 using streptavidin-Biotin system or polymer system. Prediluted antibody is used directly without dilution. FFPE tissue sections require antigen retriever (boiling tissue in 10 mM citrate pH 6.0 for 10-20 minutes, followed by cooling at RT for 15-20 minutes).

The optimum dilution should be determined by the individual lab.

**General References**

1. Clausen, P Acta. Path. Microbial. Scand. Sec. A 88:299-306, 1980.
2. Krugliak, L et. al. Am. J. Hematol. 21:99-109,1986.

**Limitation and warranty:** Our warranty is limited to the actual price paid for the product. We are not liable for any property damage, personnel injury, time, effort or economic loss due to our product.

**MSDS:** This product contains 0.05 % sodium azide as a preservative, appropriate care should be taken in handling. National Institute of Occupational Safety and Health has warning that sodium azide can react with lead, copper, brass or solder in the plumbing system and forms hydrazoic acid in acidic condition. Discard with copious amount of water. Avoid skin and eye contact with all laboratory products. Use appropriate lab. gear, lab coat , gloves and safety glasses. Do not ingest any lab. products. This product is not approved for administration in human or animals.

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