

Catalog No. LF-MA0175

MONOCLONAL ANTIBODY



Anti- α 1-antitrypsin (AAT, A1AT)(48D2)

Background: Alpha-1-antitrypsin (α 1-AT) is a 52 kDa glycoprotein, which is produced in the liver, the intestinal macrophages, the monocytes and the mucous membrane cells of the gut. It belongs to the group of acute phase proteins and it is one of the most important proteinase inhibitor. α 1-AT inhibits the proteinases trypsin and the elastase of neutrophils. A lack of α 1-AT leads to an more severe proteolysis. Only a very small amount of α 1-AT is cleaved or resorbed in the gut. Therefore the measurement of α 1-AT in stool reflects the permeability of the gut during aninflammatory processes.

Immunogen : Protein purified from Human plasma

Host : Mouse

Clone number : 48D2

Isotype : IgG1, k

Size : 100 μ l

Compositon : Hepes with 0.15 M NaCl,

0.01% BSA, 0.05% Sodium azide and 50% glycerol

Positive control : Human plasma

Applications :

Western blotting (1:2,000)

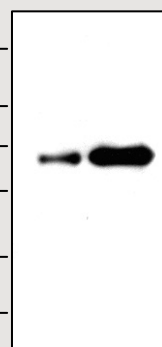
Storage : Store for 1 year at -20°C from date of shipment.

Species cross reactivity

| Human | Mouse | Rat |
|-------|-------|-----|
| + | NT | NT |

M.W.(kDa) 1 2

175 —
83 —
62 —
47.5 —
32.5 —
25 —



Immunoblot Analysis of human plasma protein

Lane 1 : α 1-antitrypsin isolated from human plasma

Lane 2 : Human plasma

Background Reference :

- 1) Abusriwil H, Stockley RA. Curr Opin Pulm Med. 2006; vol.12(2): p.125-31.
- 2) Stoller JK, Aboussouan LS. Lancet. 2005; vol.365(9478): p.2225-36.
- 3) Ranes J, Stoller JK. Semin Respir Crit Care Med. 2005; vol.26(2): p.154-66.
- 4) Brantly M. Am J Respir Cell Mol Biol. 2002; vol.27(6): p.652-4.

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NOT FOR DIAGNOSTIC OR THERAPEUTIC USE

Gentaur Molecular Products
Voortstraat 49
1910 Kampenhout, Belgium
<http://www.gentaur-worldwide.com>