Catalog No. LF-MA0180

MONOCLONAL ANTIBODY

Anti-Inter-α-trypsin inhibitor heavy chain H4(45A12)

Background : The inter-α-trypsin inhibitor (ITI, IαI) family, a typical and classical example for protein-glycosaminoglycanprote-
in (PGP) complexes, occurs constitutively in plasma at relatively high concentrations and is a result of alternate combinations of three kinds of heavy chains with a common light chain, the bikunin proteoglycan. Bikunin has two proteinase inhibitor domains and belongs to the Kunitz-type protease inhibitor family; it displays an inhibitory activity against trypsin, leukocyte elastase and plasmin. The heavy chains do not have any protease inhibitory properties but have the capacity to interact in vitro and in vivo with hyaluronic acid and this binding promotes the stability of the extra-cellular matrix. The
ITI protein family is suspected of playing a key role in the extra-cellular matrix biology.

Immunogen : Protein purified from Human plasma

Host : Mouse

Clone number : 45A12

Isotype : IgG1, k

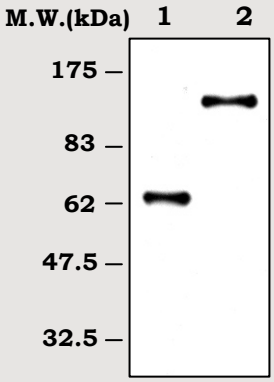
Size : 100 μℓ

Compositon : Hepes with 0.15M NaCl, 0.01% BSA, 0.03% sodium azide, and 50% glycerol

Positive control : Human plasma

Storage : Store for 1 year at –20℃ from date of shipment.

Species cross reactivity		
Human	**Mouse**	**Rat**
+	NT	NT



Immunoblot Analysis of human plasma protein
Lane 1 : Inter-alpha-trypsin inhibitor heavy chain H4 isolated from human plasma (partial protein)
Lane 2 : Human plasma

Applications :
ELISA
Western Blotting(1: 2,000)

Background Reference :

1) Tamra, E. et al., 2006, Cancer Res. 66:1464-1472
2) Zhuo, L. et al., 2004, J. Biol. Chem. 279:38079-38082
3) Cuvelier, A. et al., 2000, Rev Mal Respir. 17:437-446
4) Salier, J.P. et al., 1996, Biochem J. 315(Pt 1):1-9

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