Catalog No. LF-MA0158

MONOCLONAL ANTIBODY

Anti-Haptoglobin β-chain(2F4)

Background : Haptoglobin (abbreviated as Hp) is a protein in the blood plasma that binds free hemoglobin released from erythrocytes with high affinity and thereby inhibits its oxidative activity. Hp in its simplest form consists of two α- and two β-chains, connected by disulfide bridges. The chains originate from a common precursor protein which is proteolytically cleaved during protein synthesis. Hp exists in two allelic forms in the human population, so called Hp1 and Hp2; the latter one having arisen due to the partial duplication of Hp1 gene. Three phenotypes of Hp are found in humans: Hp1-1, Hp2-1, and Hp2-2. Hp phenotypes are associated with pathogenesis of a number of human disorders, such as diabetes, cardiovascular disease, etc. Hp plays a role in the host defence responses to infection and inflammation, acting as a natural antagonist for receptor-ligand activation of the immune system, also.

Immunogen : Protein purified from Human plasma

Host : Mouse

Clone number : 2F4

Isotype : IgG1, k

Size : 100 μℓ

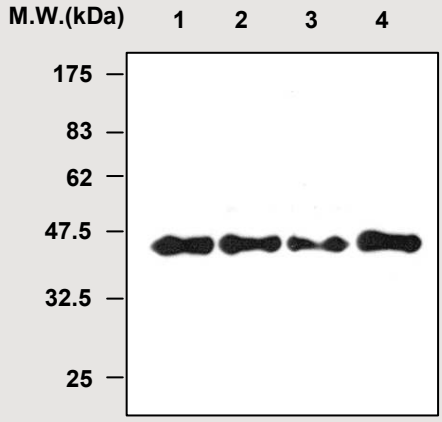
Composition : PBS containing 50% glycerol

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 : Haptoglobin 1-1 isolated from human plasma
Lane 2 : Haptoglobin 2-1 isolated from human plasma
Lane 3 : Haptoglobin 2-2 isolated from human plasma
Lane 4 : Human plasma

Applications :

ELISA

Western blotting (1:2,000)

Background Reference :

1) Sadrzadeh SM, Bozorgmehr J., Am J Clin Pathol. 2004; vol.121: pp.S97-104.

2) Wassell J. Clin Lab. 2000; vol.46(11-12): pp.547-52.

3) Dobryszycka W. Eur J Clin Chem Clin Biochem. 1997; vol.35(9): pp.647-54.

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