

Catalog No. LF-MA0157

MONOCLONAL ANTIBODY



## Anti-Haptoglobin(26E11)

**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  $\alpha$ - and two  $\beta$ -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 :** 26E11

**Isotype :** IgG1, k

**Size :** 100  $\mu$ l

**Composition :** PBS containing 50% glycerol

**Positive control :** Human plasma

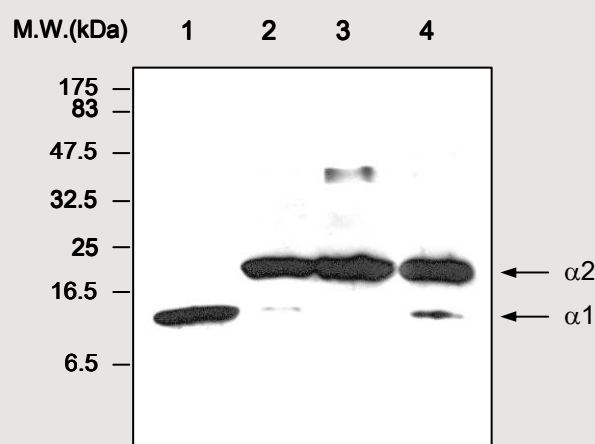
**Storage :** Store for 1 year at  $-20^{\circ}\text{C}$  from date of shipment

### Species cross reactivity

Human  
+

Mouse  
NT

Rat  
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 (1:500)

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

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