

**Mouse Anti-LPA [4H1]: MC0493**

**Intended Use:** For Research Use Only

**Description:** The protein encoded by this gene is a serine proteinase that inhibits the activity of tissue-type plasminogen activator I. The encoded protein constitutes a substantial portion of lipoprotein(a) and is proteolytically cleaved, resulting in fragments that attach to atherosclerotic lesions and promote thrombogenesis. Elevated plasma levels of this protein are linked to atherosclerosis. Depending on the individual, the encoded protein contains 2-43 copies of kringle-type domains. The allele represented here contains 15 copies of the kringle-type repeats and corresponds to that found in the reference genome sequence.

**Specifications:**

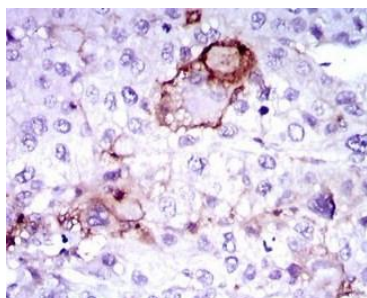
Clone: 4H1  
 Source: Mouse  
 Isotype: IgG1  
 Reactivity: Human  
 Immunogen: Purified recombinant fragment of human LPA aa 4330-4521 expressed in E. Coli  
 Localization: Membrane  
 Formulation: Purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)  
 Storage: Store at 2°- 8°C  
 Applications: IHC, ELISA, ICC/IF, WB  
 Package:

Description	Catalog No.	Size
LPA Concentrated	MC0493	1 ml

**IHC Procedure\*:**

Positive Control Tissue: Breast cancer, liver cancer, rectum cancer  
 Concentrated Dilution: 20-100  
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C  
 Incubation Time and Temp: 30-60 minutes @ RT  
 Detection: Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human liver cancer stained with anti-LPA using DAB

**References:**

1. Lipoprotein(a) Induces Human Aortic Valve Interstitial Cell Calcification. Bin Yu, et al., JACC Basic Transl Sci. Aug 28;2(4):358-371, 2017.
2. Lipoprotein(a) accelerated the progression of atherosclerosis in patients with end-stage renal disease. Kun Ling Ma, et al., BMC Nephrol. Aug 2;19(1):192, 2018.