

Anti-NMRAL1 Polyclonal Antibody

Cat: K109518P

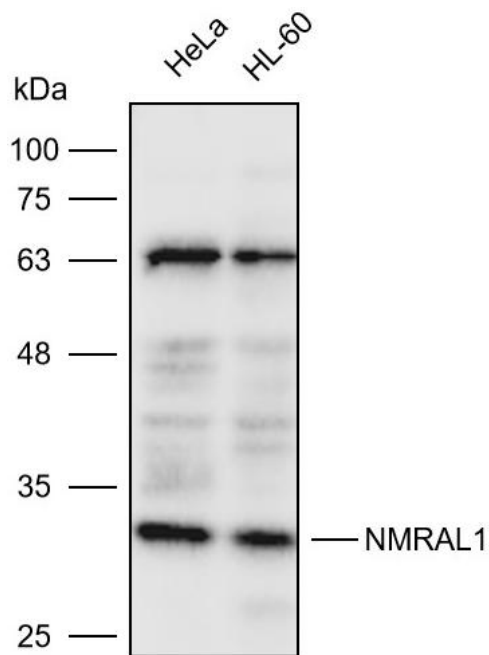
Summary:

【Product name】 : Anti-NMRAL1 antibody	【Source】 : Rabbit
【Isotype】 : IgG	【Species reactivity】 : Human Mouse Rat
【Swiss Prot】 : Q9HBL8	【Gene ID】 : 57407
【Calculated】 : MW:33kDa	【Observed】 : MW:33kDa
【Purification】 : Affinity purification	
【Tested applications】 : WB IHC	
【Recommended dilution】 : WB 1:1000-3000. IHC 1:50-200.	
【WB Positive sample】 : HeLa,HL-60	
【IHC Positive sample】 : Human stomach cancer	
【Subcellular location】 : Cytoplasm Cell membrane	
【Immunogen】 : Recombinant protein of human NMRAL1	
【Storage】 : Shipped at 4°C. Upon delivery aliquot and store at -20°C	

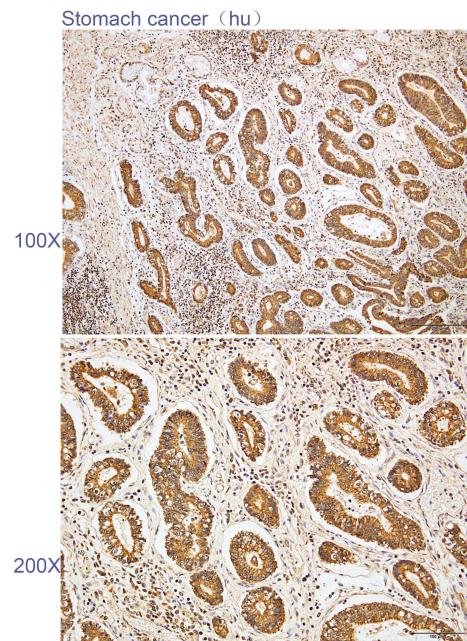
Background:

Redox sensor protein. Undergoes restructuring and subcellular redistribution in response to changes in intracellular NADPH/NADP(+) levels. At low NADPH concentrations the protein is found mainly as a monomer, and binds argininosuccinate synthase (ASS1), the enzyme involved in nitric oxide synthesis. Association with ASS1 impairs its activity and reduces the production of nitric oxide, which subsequently prevents apoptosis. Under normal NADPH concentrations, the protein is found as a dimer and hides the binding site for ASS1. The homodimer binds one molecule of NADPH. Has higher affinity for NADPH than for NADP(+). Binding to NADPH is necessary to form a stable dimer.

Verified picture



Western blot analysis with NMRAL1 antibody diluted at 1:2000; Lane: HeLa, HL-60



Immunohistochemistry of paraffin-embedded Human stomach cancer with NMRAL1 antibody diluted at 1:100