

## Purification Antibody

### Summary:

**Quantity size:** 1mg/10mg                      **Purification method:** Protein A or Protein G

**Concentration:** 10mg/mL buffer=0.01M PBS (pH7.2-7.4) with 0.03% Proclin300.

**Immunogen:** IgM                                      **Purity:** >90%

**Western blotting:** 1:5000-50000                      **ELISA:** 1:10000-100000

**ELISA coating:** 10-20ug/mL

**Immunochromatographic control-line:** 2mg/mL

**Antibody conjugation:** 500ug-20mg/mL

**Gold conjugation:** Borate buffer (PH=9.0)

**HRP conjugation:** 0.01mol/L CB (PH=9.0)

**Fluorescein conjugation:** 0.5mol/L CB (PH=9.5)

**Biotin conjugation:** 0.1mol/L NaHCO<sub>3</sub>

**Storage:** Shipped at 4°C, Store at -20°C at least one year (Avoid repeated freeze/thaw cycles).

### Background:

IgM normally constitutes about 10% of serum immunoglobulins. IgM antibody is prominent in early immune responses to most antigens and is largely confined to plasma due to its large size. Monomeric IgM is expressed as a membrane bound antibody on the surface of B cells and as a pentamer when secreted by plasma cells. Due to its high valency IgM is more efficient than other isotypes in binding antigens with repeating epitopes (virus particles and red blood cells) and is more efficient than IgG in activating the complement pathway. The gene for the mu constant region contains four domains separated by short intervening sequences.

### Related products:

SP034 Rabbit IgG  
SA134 Goat anti-Rabbit IgG (Purification Antibody)  
SF134 Goat anti-Rabbit IgG-FITC  
SE237 Rabbit Anti-pig IgG-HRP  
A1820 HRP-conjugated Antibody Dilution Buffer

### Related Articles:

[1] Wang S, Zhang Y, Liu Y, Zheng R, Wu Z, Fan Y, Li M, Li M, Li T, Li Y, Jiang Z, Wang C, Liu Y. Inhibition of CSRP2 Promotes Leukemia Cell Proliferation and Correlates with Relapse in Adults with Acute Myeloid Leukemia. *Onco Targets Ther.* 2020 Dec 7;13:12549-12560.(IF 3.337)

**Important Note:** Potency is subject to the product label. Optimal working dilutions must be determined by the end user.