

bsm-0345M**[Primary Antibody]****BioSS**
ANTIBODIES

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Human IgM Mouse mAb**— DATASHEET —****Host:** Mouse**Isotype:** IgG**Clonality:** Monoclonal**CloneNo.:** 2B8**GeneID:** 3507**SWISS:** P01871**Target:** Human IgM**Immunogen:** Native Human IgM: full length.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** Size : 50ul/100ul

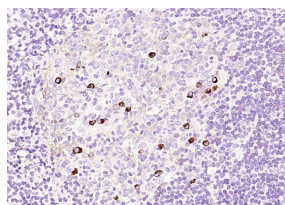
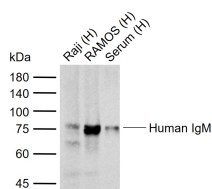
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Size : 200ug (PBS only)

0.01M PBS

Shipped at 4°C. Store at -20°C for 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.

Applications: WB (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:400-800)**IF** (1:100-500)**Reactivity:** Human**— VALIDATION IMAGES —**

Sample: Lane 1: Human Raji cell lysates Lane 2: Human RAMOS cell lysates Lane 3: Human Serum cell lysates Primary: Anti-Human IgM (bsm-0345M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: kDa Observed band size: 77 kDa

Paraformaldehyde-fixed, paraffin embedded (human tonsil); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (Human IgM) Monoclonal Antibody, Unconjugated (bsm-0345M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.

— SELECTED CITATIONS —

- **[IF=8.025]** Shasha Jiang. et al. CRM197-conjugated multi antigen dominant epitope for effective human cytomegalovirus vaccine development. INT J BIOL MACROMOL. 2022 Oct;; ELISA ;Mouse. 36252620