

## B2M

**Reactivity:**Human Mouse

**Tested applications:**WB IHC IF

**Recommended Dilution:**WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200

**Calculated MW:**14kDa

**Observed MW:**Refer to Figures

**Immunogen:**

Recombinant protein of human B2M

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

beta-2-microglobulin; B2M;

**Background:**

2-microglobulin (B2M) is a principal component of the Major Histocompatibility Complex (MHC) class I molecule, a ternary membrane protein complex that displays fragments derived from proteolyzed cytosolic proteins on the surface of cells for recognition by the surveillance immune system (1,2). As an integral component of the MHC class I complex, 2-microglobulin plays a critically important role in immune system function (3). It has important relevance to cancer biology research; for example, research studies have shown that nearly one-third of diffuse large B cell lymphomas contain mutations that inactivate 2-microglobulin gene function, thereby allowing tumor cells to escape immune detection (4). In addition, 2-microglobulin has been identified as an amyloid preprotein with collagen-binding affinity (5); its accumulation in osteoarthritic lesions of long-term dialysis patients is reportedly a contributing factor to the condition known as amyloid osteoarthropathy (6).

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**Catalog #:**A1562

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**567

**Isotype:**IgG

**Swiss Prot:**P61769

**Purity:**Affinity purification

For research use only.