



B2M

Antibody

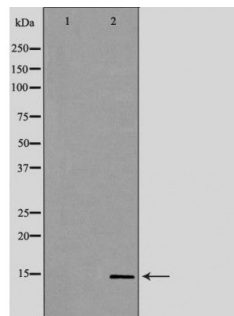
#24177

Catalog Number: 24177-1, 24177-2**Amount:** 50µg/50µl, 100µg/100µl**Swiss-Prot No. :** P61769**Form of Antibody:** Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.**Storage/Stability:** Store at -20°C/1 year**Immunogen:** The antiserum was produced against synthesized peptide derived from Human B2M**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.**Specificity/Sensitivity:** B2M antibody detects endogenous levels of total B2M protein**Reactivity:** Human, Mouse, Rat**Applications:**

Predicted MW: 14kd

WB: 1:500~1:2000

IHC: 1:50-200



Western blot analysis of extracts of various cell lines, using B2M antibody.

Background : β 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 . As an integral component of the MHC class I complex, β 2-microglobulin plays a critically important role in immune system function . 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 β 2-microglobulin gene function, thereby allowing tumor cells to escape immune detection . In addition, β 2-microglobulin has been identified as an amyloid preprotein with collagen-binding affinity ; its accumulation in osteoarthritic lesions of long-term dialysis patients is reportedly a contributing factor to the condition known as amyloid osteoarthropathy .