Recombinant beta-2-Microglobulin Monoclonal Antibody

catalog number: AN301849L

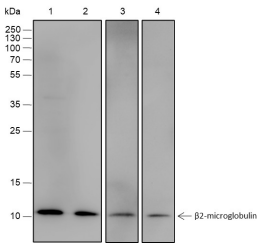
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Rat;
Immunogen	Recombinant human beta-2-Microglobulin fragment
Host	Rabbit
Isotype	IgG, κ
Clone	A561
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:500-1:2000
IHC	1:500-1:1000

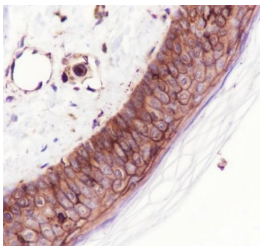
Data



Western Blot with beta-2-Microglobulin Monoclonal Antibody at dilution of 1:2000. Lane 1: Raji, Lane 2: HeLa, Lane 3: HepG2, Lane 4: Rat kidney

Observed-MW:14 kDa

Calculated-MW:14 kDa



Immunohistochemistry of paraffin-embedded Human skin using beta-2-Microglobulin Monoclonal Antibody at dilution of 1:1000.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

β2-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, β2-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 β2-microglobulin gene function, thereby allowing tumor cells to escape immune detection. In addition, β2-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.

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