Data Sheet (Cat.No.TMAY-02068)

TargetMol

Anti-Kallikrein 8/KLK8 Antibody (2G36)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	2G36
Purification:	Protein A

Applications

Verified Activity:	Anti-KLK8 rabbit monoclonal antibody at 1:500 dilution. -Lane A: A431 Whole Cell lysate. -Lysates/proteins at 30 µg per lane. -Secondary -Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. -Developed using the Odyssey technique. -Performed under reducing conditions. -Predicted band size:28 kDa. -Observed band size:35 kDa(We are unsure as to the identity of these extra bands.)
Application:	WB
Recommended	WB: 1:500-1:1000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: Human KLK8 / Kallikrein 8 Protein (TMPY-01992)
Antigen Species:	Human
Synonyms:	kallikrein-related peptidase 8;PRSS19;NRPN;HNP;NP;TADG14
Biology Area:	Serine Proteases and Regulators

Research Background

Kallikrein-8, also known as Neuropsin, Serine protease 19, Serine protease TADG-14, Tumor-associated differentially expressed gene 14 protein, and KLK8 is a secreted protein that belongs to the peptidase S1 family and Kallikrein subfamily. It is a serine protease that is capable of degrading some proteins such as casein, fibrinogen, kininogen, fibronectin, and collagen type IV. Kallikrein-8 / KLK8 plays a role in the formation and maturation of orphan and small synaptic boutons in the Schaffer-collateral pathway. It regulates Schaffer-collateral long-term potentiation in the hippocampus and is required for memory acquisition and synaptic plasticity. It is involved in skin desquamation and keratinocyte proliferation and plays a role in the secondary phase of pathogenesis following spinal cord injury. It also cleaves L1CAM in response to increased neural activity. It induces neurite outgrowth and fasciculation of cultured hippocampal neurons. Kallikrein-8 / KLK8 is expressed at high levels in serum, ascites fluid, and tumor

cytosol of advanced-stage ovarian cancer patients and may serve as a marker of ovarian cancer. Kallikrein-8 / KLK8 may have potential clinical value for disease diagnosis or prognosis and it may also be a useful therapeutic target.

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