Data Sheet (Cat.No.TMAY-03206)

TargetMol

Anti-PPM1A Antibody (8T936)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Mouse
Conjugation:	Unconjugated
Clone:	8T936
Purification:	Protein A

Applications

Verified Activity:	Anti-PPM1A rabbit monoclonal antibody at 1:500 -Lane A: Jurkat Whole Cell Lysate. -Lane B: MCF7 Whole Cell Lysate. -Lane C: SKBR3 Whole Cell Lysate. -Lane D: Mouse brain Tissue 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:42 kDa. -Observed band size:45 kDa(We are unsure as to the identity of these extra bands.)
Application:	WB
Recommended	WB: 1:500-1:2000

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: Mouse PPM1A / PP2CA Protein (TMPY-01663)
Antigen Species:	Mouse
Synonyms:	protein phosphatase, Mg2+/Mn2+ dependent, 1A;PP2CA;PP2Cα;PP2C-α;PP2C-ALPHA; PP2Calpha
Biology Area:	Phosphatases and Regulators

Research Background

Protein phosphatase 1A (PPM1A / PP2CA) is an enzyme belonging to the PP2C family of Ser / Thr protein phosphatases. Members of PP2C family are negative regulators of cell stress response pathways and the MAP kinases and MAP kinase kinases. It has also been demonstrated to inhibit the activation of p38 and JNK kinase cascades. PPM1A dephosphorylates and promotes nuclear export of TGFβ-activated Smad2/3. Ectopic expression of PPM1A abolishes TGFβ-induced antiproliferative and transcriptional responses, whereas depletion of PPM1A

enhances TGFβ signaling in mammalian cells. It has been demonstrated that PPM1A / PP2CA, through dephosphorylation of Smad2/3, plays a critical role in terminating TGFβ signaling. Overexpression of PPM1A is reported to activate the expression of the tumor suppressor gene TP53 / p53, which leads to cell apoptosis.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481