

AKT1S1

Mouse Anti-Human AKT1 Substrate 1 (Proline-rich) Clone 73P21 mAb

Catalog No.	CSI14573	Quantity:	100 µg
Alternate Names:	Lobe, MGC2865, PRAS40, proline-rich Akt substrate, 40 kDa		
Description:	PRAS40 MAB (73P21) U MS X HU; Unconjugated Monoclonal antibody specific to Human PRAS40. This antibody is validated for use in Western Blot, Immunoassay (ELISA). Anti-PRAS40 recognizes the expressed product of the AKT1S1 gene.		
Gene ID:	84335		
Clone Number:	73P21		
Specificity:	Proline-Rich AKT Substrate (PRAS40) is a 40 kDa substrate of AKT. Activated AKT phosphorylates PRAS40 on threonine 246, enabling PRAS40 to bind to 14-3-3.		
AKT and PRAS40 are components of the phosphoinositide 3-kinase (PI3K) pathway. This pathway plays a role in glucose uptake, cell growth, and apoptosis inhibition. The			
Recommended Positive Controls:	HeLa cells; Jurkat cells.		
Immunogen:	Recombinant full length human PRAS40 expressed in <i>E. coli</i> .		
Isotype:	IgG1 kappa		
Myeloma/Fusion Partners:	BALB/c mouse splenocytes were fused with FO myeloma cells.		
Formulation:	Purified immunoglobulin in phosphate buffered saline containing 1% BSA. Preservative: 0.1% sodium azide. Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.		
Purification:	Purified by Protein A/G affinity chromatography.		
Reconstitution:	For Western blotting applications, we recommend using the antibody at 0.1-1.0 µg/mL. The optimal antibody concentration should be determined empirically for each specific application.		
Cross-Reactivity:	Human. This antibody does not cross-react with mouse. Other species were not tested.		
Storage & Stability:	Store at 2-8°C for up to one month. For long term storage, apportion into working aliquots and store at -20°C. Avoid repeated freeze-thaw cycles to prevent denaturing the antibody.		

Extract prepared from human HeLa cells was resolved by SDS-PAGE on a 4-20% polyacrylamide gel and transferred to PVDF. The membrane was blocked with a 5% milk-TBST buffer and then incubated with this RAS40 monoclonal antibody (clone 73P21) at a concentration of 0.50 µg/ml in a 5% milk-TBST buffer for



100 µg of membrane was probed with 1 µg/ml of the primary antibody for two hours at room temperature. After washing, the membrane was incubated with goat F(ab')2 anti-mouse IgG alkaline phosphatase and the signal was detected using the Tropix WesternStar™ method.



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Cell Sciences®
480 Neponset Street
Bldg 12A
Canton, MA 02021

Toll Free: 888-769-1246
Phone: 781-828-0610
Fax: 781-828-0542

E-mail: info@cellsciences.com
Website: www.cellsciences.com