RagD Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 50	Source: Rabbit	UniProt ID: #Q9NQL2	Entrez-Gene Id: 58528	
Product Usage Information	Ар	plication			Dilution		
	We	stern Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sen	sitivity Rag	RagD Antibody detects endogenous levels of total RagD protein.					
Source / Purifica		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the sequence of human RagD protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	leve Rec with activ Rag	The mTORC1 kinase complex is a critical regulator of cell growth (1,2). Its activity is modulated by energy levels, growth factors, and amino acids via signaling through Akt, MAPK, and AMPK pathways (3,4). Recent studies found that the four related GTPases, RagA, RagB, RagC, and RagD, interact with raptor within the mTORC1 complex (1,2). These interactions are both necessary and sufficient for mTORC1 activation in response to amino acid signals (1,2). RagD is one of several genes differentially expressed in human melanoma cell lines and has been considered as a viable target for further diagnostic and therapeutic study (5).					
Background Ref	2. K 3. H 4. W	im, E. et al. (2008) ay, N. and Sonenbe /ullschleger, S. et al	al. (2008) <i>Science</i> 320, 1496-501. (2008) <i>Nat Cell Biol</i> 10, 935-45. Sonenberg, N. (2004) <i>Genes Dev</i> 18, 1926-45. S. et al. (2006) <i>Cell</i> 124, 471-84. et al. (2005) <i>Br J Cancer</i> 92, 2249-61.				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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