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#48086**MAGI3-Akt3 Fusion Protein (D4D3P)
Rabbit mAb****Orders:** 877-616-CELL (2355)
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP, IF-IC	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 135	Source/Isotype: Rabbit IgG	UniProt ID: #Q9Y243, #Q5TCQ9	Entrez-Gene Id: 10000, 260425
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Product Usage Information	Application Western Blotting Immunoprecipitation Immunofluorescence (Immunocytochemistry)	Dilution 1:1000 1:50 1:3200
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity/Sensitivity	MAGI3-Akt3 Fusion Protein (D4D3P) Rabbit mAb recognizes transfected MAGI3-Akt3 fusion protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding the fusion site of MAGI3-Akt3 fusion protein.	
Background	MAGI3-Akt3 fusion was first detected in triple-negative breast cancer tissues in a sequence analysis research study (1). Rearrangement occurs between the genes MAGI3 (membrane-associated guanylate kinase, WW and PDZ domain containing 3) on chromosome 1p and Akt3 on chromosome 1q, leading to a translocation from intron 9 in MAGI3 to intron1 of Akt3. This rearrangement yields an in-frame fusion gene that translates into a MAGI3-Akt3 fusion protein. Overexpression studies show that MAGI3-Akt3 fusion protein leads to the constitutive activation of Akt kinase (1). Further research studies demonstrate that this fusion is not a recurrent event in triple-negative breast cancer (2,3).	
Background References	<ol style="list-style-type: none"> Banerji, S. et al. (2012) <i>Nature</i> 486, 405-9. Mosquera, J.M. et al. (2015) <i>Nature</i> 520, E11-2. Pugh, T.J. et al. (2015) <i>Nature</i> 520, E12-4. 	
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	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)	
Cross-Reactivity Key	H: Human	
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