Clathrin Heavy Chain (P1663) Antibody



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Applications: W, IF-IC	Reactivity: H M R Mk B	Sensitivity: Endogenous	MW (kDa): 190	Source/Isotype: Rabbit	UniProt ID: #Q00610	Entrez-Gene Id 1213
Product Usage Information		Application Western Blotting Immunofluorescence	· (Immunocytochem	nistry)		Dilution 1:1000 1:100
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/Sensitivity		Clathrin Heavy Chain (P1663) Antibody detects endogenous levels of total Clathrin protein.				
Species predicted to react based on 100% sequence homology		Pig				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro1663 of human Clathrin. Antibodies are purified by protein A and peptide affinity chromatography				
Background		Clathrin-coated vesicles provide for the intracellular transport of cargo proteins following endocytosis and during multiple vesicle trafficking pathways. Vesicles form at specialized areas of the cell membrane where clathrin and associated proteins form clathrin-coated pits. Invagination of these cell membrane-associated pits internalizes proteins and forms an intracellular clathrin-coated vesicle (1,2). Clathrin is the most abundant protein in these vesicles and is present as a basic assembly unit called a triskelion. Each clathrin triskelion is composed of three clathrin heavy chains and three clathrin light chains. Clathrin heavy chain proteins are composed of several functional domains, including a carboxy-terminal region that permits interaction with other heavy chain proteins within a triskelion, and a globular amino-terminal region that associates with other vesicle proteins (2). Adaptor proteins, such as AP2, epsin and EPS15, are responsible for the recruitment of vesicle proteins to sites of pit formation and the assembly of the clathrin-coated vesicle. Following vesicle invagination, the GTPase dynamin constricts the neck of the nascent vesicle to complete formation of the free, cytosolic vesicle (3,4).				
Background References		 Rodriguez-Boulan, E. et al. (2005) Nat. Rev. Mol. Cell Biol. 6, 233-247. Mousavi, S.A. et al. (2004) Biochem. J. 377, 1-16. Rappoport, J.Z. et al. (2004) Traffic 5, 327-237. Brett, T.J. and Traub, L.M. (2006) Curr. Opin. Cell Biol. 18, 395-406. 				
Species Reactiv	vity	Species reactivity is do	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
		ury IIIIK, 17 163, 0.17	Tween® 20 at 4°C		ernight.	n 5% w/v nonfat
Applications Ke	∍y	•			-	n 5% w/v nonfat

Limited Uses

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