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## Clathrin Heavy Chain (D3C6) XP<sup>®</sup> Rabbit mAb 962



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Applications: W, IP, IF-IC	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 190	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q00610	Entrez-Gene Id: 1213		
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunofluorescence	(Immunocytochem	iistry)		<b>Dilution</b> 1:1000 1:100 1:50		
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/Sen	pecificity/Sensitivity Clathrin Heavy Chain (D3C6) XP <sup>®</sup> Rabbit mAb detects endogenous levels of total clathrin pro				hrin protein.			
Species predicted to react based on 100% sequence homology		Pig						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro1663 of human clathrin heavy chain protein.						
Background Background Re	eferences	<ul> <li>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).</li> <li>1. Rodriguez-Boulan, E. et al. (2005) <i>Nat. Rev. Mol. Cell Biol.</i> 6, 233-247.</li> <li>2. Mousavi, S.A. et al. (2004) <i>Traffic</i> 5, 327-237.</li> <li>4. Brett, T.J. and Traub, L.M. (2006) <i>Curr. Opin. Cell Biol.</i> 18, 395-406.</li> </ul>						
Species Reactiv	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot E	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 K	ey	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat Mk: Monkey						
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