#2410 Store at -20C

Clathrin Heavy Chain (P1663) Antibody



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Applications:Reactivity:Sensitivity:MW (kDa):Source:UniProt ID:Entrez-Gene Id:WB, IF-ICH M R Mk BEndogenous190Rabbit#Q006101213

Product Usage
InformationApplicationDilutionWestern Blotting1:1000Immunofluorescence (Immunocytochemistry)1:100

Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/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 1. Rodriguez-Boulan, E. et al. (2005) *Nat. Rev. Mol. Cell Biol.* 6, 233-247.

2. Mousavi, S.A. et al. (2004) Biochem. J. 377, 1-16.

3. Rappoport, J.Z. et al. (2004) *Traffic* 5, 327-237.

4. Brett, T.J. and Traub, L.M. (2006) Curr. Opin. Cell Biol. 18, 395-406.

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 nonfat dry

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)

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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Limited Uses

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