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KLHDC3 Rabbit pAb

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Catalog # AP56391

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9BQ90
Predicted	Rat, Pig, Human, Mouse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	43088
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KLHDC3
Epitope Specificity	221-320/382
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasm. Also found in meiotic chromatin.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene contains six repeated kelch motifs that are structurally similar to recombination activating gene 2, a protein involved in the activation of the V(D)J recombination. In mouse, this gene is found to be expressed specifically in testis. Its expression in pachytene spermatocytes is localized to cytoplasma and meiotic chromatin, suggesting that this gene may be involved in meiotic recombination. [provided by RefSeq, Jun 2012]

Additional Information

Gene ID	116138
Other Names	Kelch domain-containing protein 3, Testis intracellular mediator protein, KLHDC3 {ECO:0000303|PubMed:26138980, ECO:0000312|HGNC:HGNC:20704}
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	KLHDC3 {ECO:0000303|PubMed:26138980, ECO:0000312|HGNC:HGNC:20704}
Function	Substrate-recognition component of a Cul2-RING (CRL2) E3 ubiquitin-protein ligase complex of the DesCEND (destruction via C-end degrons) pathway, which recognizes a C-degron located at the extreme C terminus of target proteins, leading to their ubiquitination and degradation (PubMed:29775578, PubMed:29779948). The C-degron recognized by the DesCEND pathway is usually a motif of less than ten residues and can be present in full-length proteins, truncated proteins or proteolytically cleaved forms (PubMed:29775578, PubMed:29779948). The CRL2(KLHDC3) complex specifically recognizes proteins with a glycine (Gly) at the C-terminus, leading to their ubiquitination and degradation: recognizes the C-terminal -Arg-(Xaa)n-Arg-Gly, -Arg- (Xaa)n-Lys-Gly, and -Arg-(Xaa)n-Gln-Gly degrons (PubMed:29775578, PubMed:29779948). The CRL2(KLHDC3) complex mediates ubiquitination and degradation of truncated SELENOV and SEPHS2 selenoproteins produced by failed UGA/Sec decoding, which end with a glycine (PubMed:26138980). May be involved in meiotic recombination process (PubMed:12606021).
Cellular Location	Cytoplasm.

Background

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.