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KCP2 Rabbit pAb

Catalog # AP99394

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q8N6L1
Other Accession	Q8N6L1
Predicted	Rat, Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	14679
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human KCP2
Epitope Specificity	81-136/136
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the KRTCAP2 family.
SUBUNIT	Component of the oligosaccharyltransferase (OST) complex.OST seems to exist in different forms which contain at least RPN1,RPN2, OST48, DAD1, OSTC, KRTCAP2 and either STT3A or STT3B. OST can form stable complexes with the Sec61 complex or with both the Sec61 and TRAP complexes. Interacts with STT3A.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Acts as accessory component of the N-oligosaccharyl transferase (OST) complex which catalyzes the transfer of a high mannose oligosaccharide from a lipid-linked oligosaccharide donor to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains. Required for efficient substrate-specific N-glycosylation probably involving the STT3A-containing OST complex. May be involved in N-glycosylation of APP (amyloid-beta precursor protein). Can modulate gamma-secretase cleavage of APP by enhancing endoprotelysis of PSEN1.

Additional Information

Gene ID	200185
Other Names	KCP2; 0610010I12Rik; KTAP2_HUMAN; KRTCAP2; Oligosaccharyl transferase subunit KCP2; Keratinocyte-associated protein 2 (KCP-2); KTAP2_MOUSE; keratinocyte associated protein 2
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	KRTCAP2
Synonyms	KCP2 {ECO:0000303|PubMed:28860277}
Function	Subunit of STT3A-containing oligosaccharyl transferase (OST- A) complex that catalyzes the initial transfer of a defined glycan (Glc(3)Man(9)GlcNAc(2) in eukaryotes) from the lipid carrier dolichol- pyrophosphate to an asparagine residue within an Asn-X-Ser/Thr consensus motif in nascent polypeptide chains, the first step in protein N-glycosylation (PubMed:22467853, PubMed:28860277). N- glycosylation occurs cotranslationally and the complex associates with the Sec61 complex at the channel-forming translocon complex that mediates protein translocation across the endoplasmic reticulum (ER) (PubMed:22467853, PubMed:28860277). Within the OST-A complex, acts as an adapter that anchors the OST-A complex to the Sec61 complex (PubMed:28860277). May be involved in N-glycosylation of APP (amyloid- beta precursor protein) (PubMed:21768116). Can modulate gamma-secretase cleavage of APP by enhancing endoprotelysis of PSEN1 (PubMed:21768116).
Cellular Location	Endoplasmic reticulum. Endoplasmic reticulum membrane; Multi-pass membrane protein
Tissue Location	Expressed in skin, heart, placental, liver, skeletal muscle, kidney, pancreas, keratinocytes and dermal fibroblasts.

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