

Rabbit DEPDC5 Polyclonal Antibody | anti-DEPDC5 antibody

Phospho-DEPDC5 (Thr1531) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329967	Rabbit	HumanPredicted Reactivity: Zebrafish (100%), Bovine (100%), Horse (100%), Rabbit (100%), Dog (100%), Chicken (100%)	ELISA, Western Blot

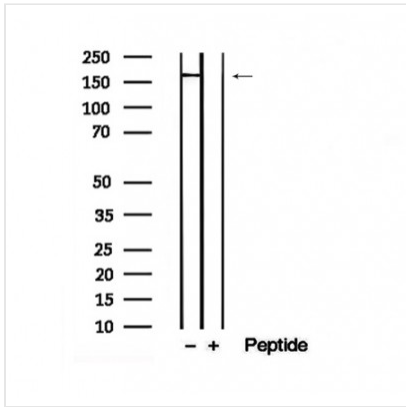
PRODUCT SYNONYMS

DEPDC5; Polyclonal Antibody; Phospho-DEPDC5 (Thr1531) Antibody; DEP domain containing 5; DEP domain-containing protein 5; DEP.5; DEPDC5_HUMAN; FFEVF; KIAA0645; anti-DEPDC5 antibody

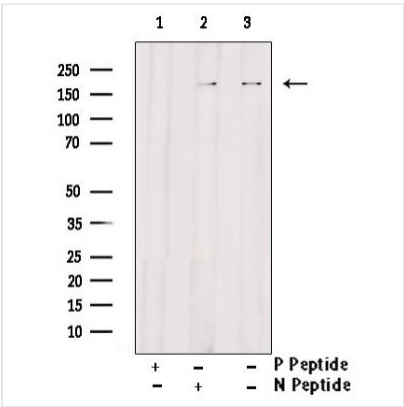
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted Reactivity: Zebrafish (100%), Bovine (100%), Horse (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-DEPDC5 (Thr1531) Antibody detects endogenous levels of DEPDC5 only when phosphorylated at T1531. Tissue Specificity: Expressed in developing and adult brain.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-DEPDC5 antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human DEPDC5 around the phosphorylation site of T1531.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Ubiquitinated. Amino acid-induced 'Lys-48'-linked polyubiquitination of DEPDC5 by the BCR (KLHL22) ubiquitin ligase complex leads to DEPDC5 proteasomal degradation and inhibition of the GATOR1 complex. Ubiquitination may occur at multiple lysines.
Subunit Structure	Within the GATOR complex, component of the GATOR1 subcomplex, made of DEPDC5, NPRL2 and NPRL3. GATOR1 mediates the strong interaction of the GATOR complex with RAGA/RRAGC and RAGB/RRAGC heterodimers. Interacts (via DEP domain) with KLHL22; the interaction depends on amino acid availability.
Similarity	The DEP domain mediates the interaction with KLHL22.Belongs to the IML1 family.
Subcellular Location	Cytoplasm>Cytosol. Cytoplasm>Perinuclear region. Lysosome membrane. Note: Localization to lysosomes is amino acid-independent.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts from HeLa, using Phospho-DEPDC5(T1531) Antibody.



WB (Western Blot)
Western blot analysis of extracts from HeLa cells, using Phospho-DEPDC5(Thr1531) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-DEPDC5 antibody	As a component of the GATOR1 complex functions as an inhibitor of the amino acid-sensing branch of the TORC1 pathway. The GATOR1 complex strongly increases GTP hydrolysis by RRAGA and RRAGB within RRAGC-containing heterodimers, thereby deactivating RRAGs, releasing mTORC1 from lysosomal surface and inhibiting mTORC1 signaling. The GATOR1 complex is negatively regulated by GATOR2 the other GATOR subcomplex in this amino acid-sensing branch of the TORC1 pathway.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	510120820
NCBI GeneID	9681
UniProt Accession #	O75140; Q5K3V5; Q5THY9; Q5THZ0; Q5THZ1; Q5THZ3; Q68DR1; Q6MZX3; A6H8V6; A8MPX9; B4DH93; B9EGN9
Molecular Weight	177,910 Da
NCBI Official Full Name	DEP domain-containing protein 5
NCBI Official Synonym Full Names	DEP domain containing 5
NCBI Official Symbol	DEPDC5
NCBI Official Synonym Symbols	DEP.5; FFEVF
NCBI Protein Information	DEP domain-containing protein 5
UniProt Protein Name	DEP domain-containing protein 5
UniProt Gene Name	DEPDC5
UniProt Synonym Gene Names	KIAA0645
UniProt Entry Name	DEPD5_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/depdc5-antibody-peptide-elisa-western-blot-elisa/329967>