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[Marker Primary Antibody]

Rabbit Anti-DEPDC1/AF647 Conjugated antibody

Catalog Number: SL6525R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-DEPDC1/AF647
Immunogen:	KLH conjugated synthetic peptide derived from human DEPDC1 (606-660aa)
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Cow,Horse,Rabbit,Sheep)
Background:	background: DEPDC1 is a 784 amino acid nuclear protein expressed in testis and up-regulated in bladder cancer cells. Containing a DEP domain and a Rho-GAP domain, DEPDC1 may play an essential role in the growth of bladder cancer cells, and is considered a novel protein target for bladder cancer therapy. Existing as five isoforms produced by alternative splicing events, DEPDC1 is encoded by a gene located on human chromosome 1, which spans 260 million base pairs, contains over 3,000 genes and comprises nearly 8% of the human genome. Chromosome 1 houses a large number of disease-associated genes, including those that are involved in familial adenomatous polyposis, Stickler syndrome, Parkinson's disease, Gaucher disease, schizophrenia and Usher syndrome. Aberrations in chromosome 1 are found in a variety of cancers, including head and neck cancer, malignant melanoma and multiple myeloma **Function:** May be involved in transcriptional regulation as a transcriptional corepressor. The DEPDC1A-ZNF224 complex may play a critical role in

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	bladder carcinogenesis by repressing the transcription of the A20 gene, leading to transport of NF-KB protein into the nucleus, resulting in suppression of apoptosis of bladder cancer cells. **Subunit:** Isoform 2 and isoform 5 can form homodimers and heterodimers. Interacts with ZNF224. **Subcellular Location:** Nucleus. Note=Co-localizes with ZNF224 at the nucleus. **Tissue Specificity:** Expressed in testis. Up-regulated in bladder cancer cells (at protein level). **Similarity:** Contains 1 DEP domain. Contains 1 Rho-GAP domain. **Database links:** **Entrez Gene:** 55635 Human Omim: 612002 Human **SwissProt:** Q5TB30 Human **Unigene:** 445098 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.