bs-6525R **[Primary Antibody]**

DEPDC1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 55635 **SWISS:** Q5TB30

Target: DEPDC1

Immunogen: KLH conjugated synthetic peptide derived from human DEPDC1: 606-660/811.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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

Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
ELISA (1:5000-10000)

Reactivity: Mouse (predicted: Human, Rat, Rabbit, Sheep, Cow, Horse)

Predicted MW.: 93 kDa

Subcellular Location: Nucleus

SELECTED CITATIONS

- **[IF=7.7]** Meiwen Lv. et al. Exosomal miR-130b-3p suppresses metastasis of non-small cell lung cancer cells by targeting DEPDC1 via TGF-β signaling pathway. INT J BIOL MACROMOL. 2024 Aug;275:133594 IHC ;Human. 38960258
- **[IF=6.208]** Guangzhao Huang. et al. Glycolysis-Related Gene Analyses Indicate That DEPDC1 Promotes the Malignant Progression of Oral Squamous Cell Carcinoma via the WNT/β-Catenin Signaling Pathway. INT J MOL SCI. 2023 Jan;24(3):1992 WB ;Human. 36768316
- **[IF=3.7]** Meiwen Lv. et al. Comprehensive analysis and validation reveal DEPDC1 as a potential diagnostic biomarker associated with tumor immunity in non-small-cell lung cancer. PLOS ONE. 2024 Apr;19(4):e0294227 WB ;Human. 38564630
- **[IF=3.5]** Yang Yan. et al.The human 18S rRNA m6A methyltransferase METTL5 promotes tumorigenesis via DEPDC1 in lung squamous cell carcinoma.frontiers in oncology.2025 Feb 13:15:1522157. Western blot ;Human. 40018408