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**Research Use Only. Not for  
diagnostic or therapeutic use.**

## EB10317 - Goat Anti-PPPDE1 / PNAS4 Antibody

Size: 100µg specific antibody in 200µl



## Target Protein

**Principal Names:** C1orf121, CGI-146, FAM152A, family with sequence similarity 152, member A, FLJ21998, PNAS-4, PPPDE peptidase domain containing 1, PPPDE1, PNAS4

**Official Symbol:** DESI2

**Accession Number(s):** NP\_057160.2

**Human GeneID(s):** [51029](#)

**Non-Human GeneID(s):** 78825 (mouse), 289277 (rat)

## Immunogen

Peptide with sequence C-ELGKEYKGNAYH, from the internal region of the protein sequence according to NP\_057160.2.

Please note the [peptide](#) is available for sale.

## Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

## Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:32000.

**Western blot:** In transfected HEK293 transiently expressing full-length Human PPPDE1(myc and DYKDDDDK tagged), a band of approx. 30kDa was observed. No bands were observed in mock-transfected HEK293 and the same band was observed using anti-myc tag antibody. Recommended concentration: 0.5-1µg/ml.

**IHC:** Paraffin embedded Human Skin. Recommended concentration: 10µg/ml.

Purchase the +ve control! The transfected lysate used to QC this product is available for sale. Please email [sales@everestbiotech.com](mailto:sales@everestbiotech.com) to request datasheet, pricing and delivery information.

## Species Reactivity

**Tested:** Human

**Expected from sequence similarity:** Human, Mouse, Rat, Dog, Cow, Pig

## Specific References

**This antibody has been successfully used in Western blot on Human:**

Yan H, Guo W, Li K, Tang M, Zhao X, Lei Y, Nie CL, Yuan Z

Combination of DESI2 and endostatin gene therapy significantly improves antitumor efficacy by accumulating DNA lesions, inducing apoptosis and inhibiting angiogenesis.

Exp Cell Res. 2018 Oct 1;371(1):50-62

PMID: 30055135

**This antibody has been successfully used in Western blot on Mouse:**

Chao Lin, Hua Ying Yan, Jun Yang, Lei Li, Mei Tang, Xinyu Zhao, Chunlai Nie, Na Luo, Yuquan Wei and Zhu Yuan

Combination of DESI2 and IP10 gene therapy significantly improves therapeutic efficacy against murine carcinoma

Oncotarget. 2017 May 5;8(34):56281-56295.

PMID: 28915590

**This antibody has been successfully used in IHC and Western blot on Human:**

Yuan Z, Guo W, Yang J, Li L, Wang M, Lei Y, Wan Y, Zhao X, Luo N, Cheng P, Liu X, Nie C, Peng Y, Tong A, Wei Y

PNAS-4, an Early DNA Damage Response Gene, Induces S Phase Arrest and Apoptosis by Activating Checkpoint Kinases in Lung Cancer Cells.

J Biol Chem. 2015 Jun 12;290(24):14927

PMID: 25918161

**This antibody has been successfully used on Human:**

Li L, Chen DB, Lin C, Cao K, Wan Y, Zhao XY, Nie CL, Yuan Z, Wei YQ.

hPNAS-4 inhibits proliferation through S phase arrest and apoptosis: underlying action mechanism in ovarian cancer cells.

Apoptosis. 2013 Apr;18(4):467-79.

PMID: 23322088

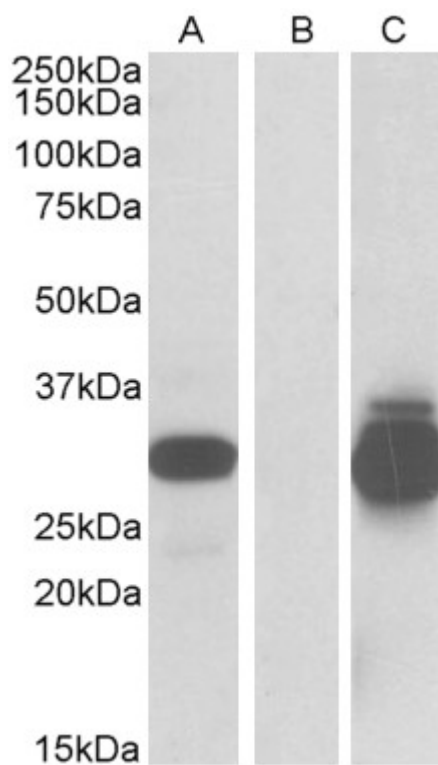
**This antibody has been successfully used in Western blot on Human:**

Zeng H, Yuan Z, Zhu H, Li L, Shi H, Wang Z, Fan Y, Deng Q, Zeng J, He Y, Xiao J, Li Z.

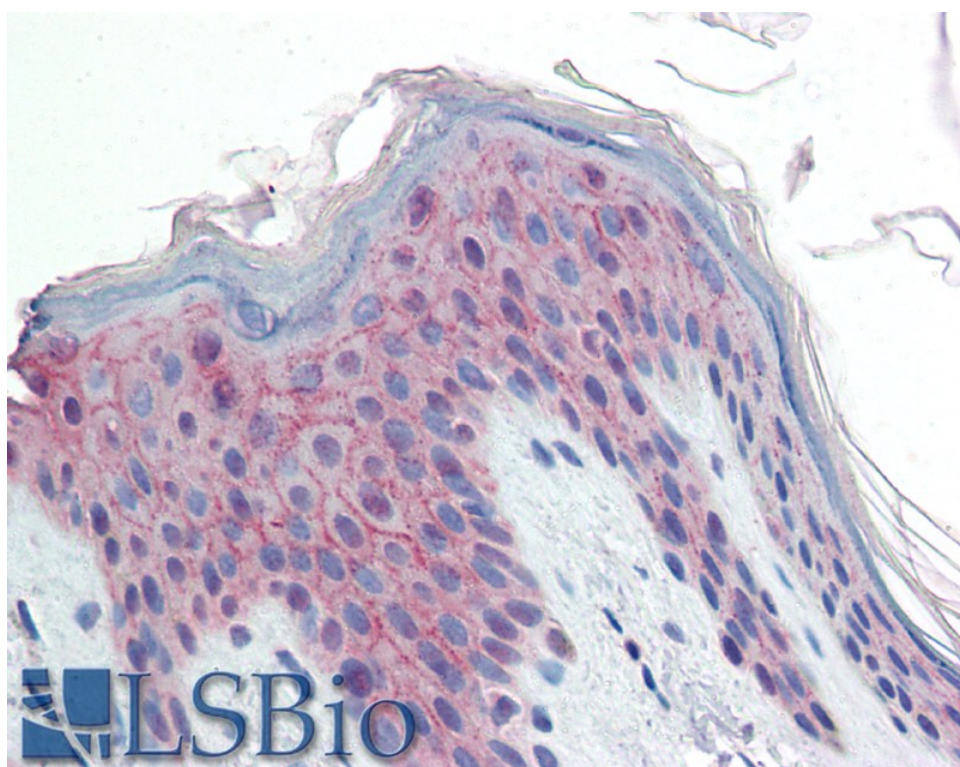
Expression of hPNAS-4 radiosensitizes Lewis lung cancer.

Int J Radiat Oncol Biol Phys. 2012 Nov 15;84(4):e533-40.

PMID: 22836062



HEK293 lysate (10ug protein in RIPA buffer) overexpressing Human PPPDE1 with C-terminal MYC tag probed with EB10317 (0.5ug/ml) in Lane A and probed with anti-MYC Tag (1/5000) in lane C. Mock-transfected HEK293 probed with EB10317 (1mg/ml) in Lane B. Primary incubations were for 1 hour. Detected by chemiluminescence.



EB10317 (10µg/ml) staining of paraffin embedded Human Skin. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.