



Rabbit Anti-DEC2 antibody

SL6932R

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| Product Name: | DEC2 |
| Chinese Name: | transcriptional regulatory factorDEC2抗体 |
| Alias: | SHARP-1; bHLH protein DEC2; bHLHB3; bHLHe41; Class B basic helix loop helix protein 3; Class B basic helix-loop-helix protein 3; Class E basic helix-loop-helix protein 41; DEC2; Differentially expressed in chondrocytes protein 2; Enhancer of split and hairy related protein 1; Enhancer-of-split and hairy-related protein 1; hDEC2; Moderately similar to basic-helix loop helix protein M.musculus; BHE41_HUMAN. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Dog,Pig,Cow, |
| Applications: | WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 50kDa |
| Cellular localization: | The nucleus |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human SHARP1/DEC2:21-120/482 |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| 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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| PubMed: | PubMed |
| Product Detail: | DEC1 is a 412 amino acid, basic helix-loop-helix (bHLH) containing protein that is involved in the control of proliferation and/or differentiation of several cell types including nerve cells, fibroblasts and chondrocytes. The bHLH region of DEC1 is structurally similar to the bHLH regions of the mammalian HES family, Drosophila |

hairly and Drosophila Enhancer of split m7. DEC1 is a novel direct target for cAMP in a wide range of cells, and is involved in the control of gene expression in cAMP-activated cells. DEC2, also known as SHARP1, is highly expressed in skeletal muscle and brain. The gene encoding human DEC2 maps to chromosome 12p11.23-p12.1. DEC1 and DEC2 play a role in regulating the mammalian molecular clock by suppressing the transcription of specific clock genes. Both DEC1 and DEC2 are detected in the suprachiasmatic nucleus in a circadian fashion. Brief light impulses induce the expression of DEC1 in a phase-dependent manner.

Function:

May be a transcriptional repressor that represses both basal and activated transcription.

Subunit:

Homodimerize.

Subcellular Location:

Nucleus.

Tissue Specificity:

Highly expressed in skeletal muscle and brain, moderately expressed in pancreas and heart, weakly expressed in placenta, lung, liver and kidney.

Similarity:

Contains 1 basic helix-loop-helix (bHLH) domain.

Contains 1 Orange domain.

SWISS:

Q9C0J9

Gene ID:

79365

Database links:

[Entrez Gene: 79365](#)Human

[Entrez Gene: 79362](#)Mouse

[Entrez Gene: 117095](#)Rat

[Omim: 606200](#)Human

[SwissProt: Q9C0J9](#)Human

[SwissProt: Q99PV5](#)Mouse

[SwissProt: O35779](#)Rat

[Unigene: 177841](#)Human

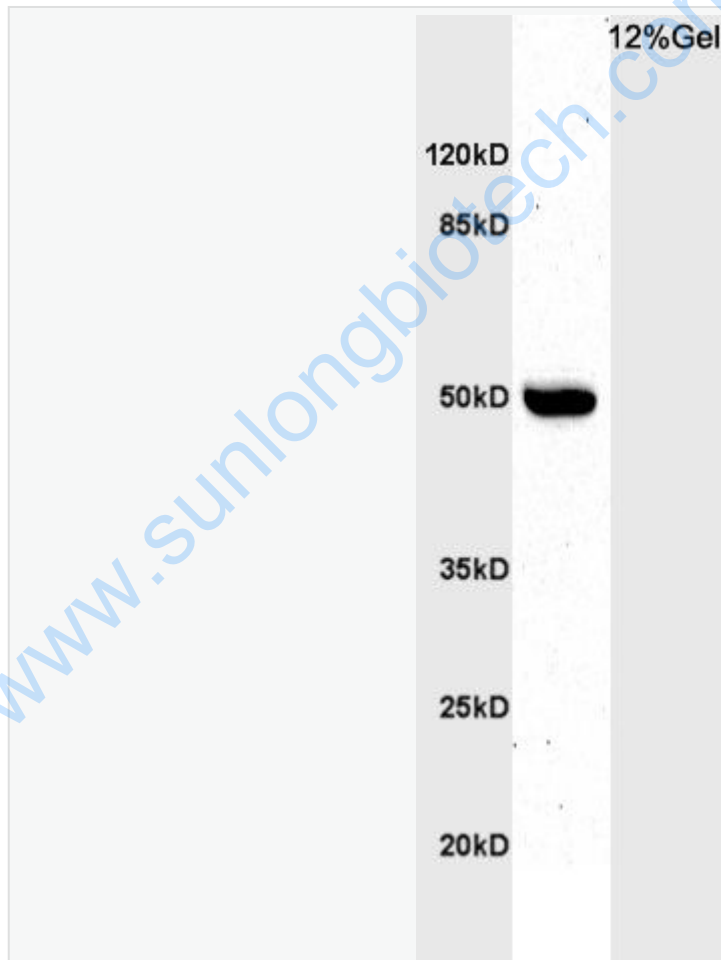
[Unigene: 154529](#)Mouse

[Unigene: 10784](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample: Brain (Rat) Lysate at 40 ug

Primary: Anti-DEC2 (SL6932R) at 1/300 dilution

Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL6932R) at 1/5000 dilution

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| | <p>Predicted band size: 50 kD</p> |
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| | <p>Observed band size: 50 kD</p> |
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