

For Research Use Only

SIX4 Polyclonal antibody

Catalog Number: 21305-1-AP

4 Publications



Basic Information

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| Catalog Number: 21305-1-AP | GenBank Accession Number: BC098282 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 450 ug/ml by Nanodrop and 267 ug/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 51804 | Recommended Dilutions: WB 1:1000-1:4000 |
| Source: Rabbit | UNIPROT ID: Q9UIU6 | IHC 1:250-1:1000 |
| Isotype: IgG | Full Name: SIX homeobox 4 | IF/ICC 1:50-1:500 |
| Immunogen Catalog Number: AG15918 | Calculated MW: 781 aa, 83 kDa | |
| | Observed MW: 98 kDa | |

Applications

| | |
|--|---|
| Tested Applications: WB, IHC, IF/ICC, ELISA | Positive Controls: WB : HEK-293T cells, HeLa cells |
| Cited Applications: WB, IHC, IF | IHC : human cervical cancer tissue, human ovary cancer tissue, mouse salivary gland tissue, mouse tongue tissue, rat salivary gland tissue |
| Species Specificity: human, mouse, rat | IF/ICC : HeLa cells, |
| Cited Species: human, mouse | |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

Background Information

The Six (sine oculis) proteins are a family of homeodomain transcription factors that share a conserved DNA-binding domain and are human homologs of the Drosophila sine oculis (so) protein. SIX homeobox 4 (SIX4), also known as AREC3, belongs to the Six family. Six4 contains one Six domain (which functions as a homeobox DNA-binding motif) and shares 90% sequence similarity with its mouse counterpart, suggesting that both proteins have similar DNA-binding properties. SIX4 is thought to be involved in neurogenesis, myogenesis, and development of other organs, based on its specific expression in certain neuronal cells of the developing embryo and in adult skeletal muscles.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------------|-----------|----------------|-------------|
| Beverly A Karpinski | 26988119 | Dev Biol | IF |
| Xuedan Sun | 32149459 | EMBO Rep | WB |
| Ziyan Zhang | 39309424 | Int J Biol Sci | WB,IHC,IF |

Storage

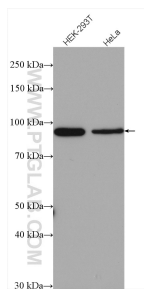
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

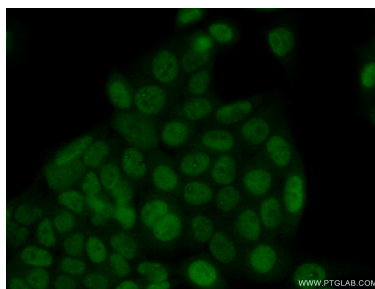
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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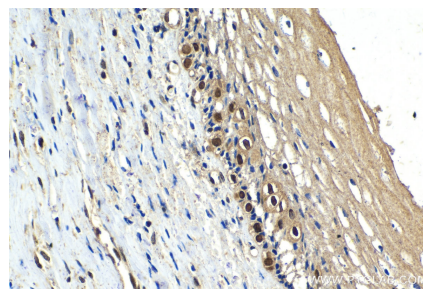
Selected Validation Data



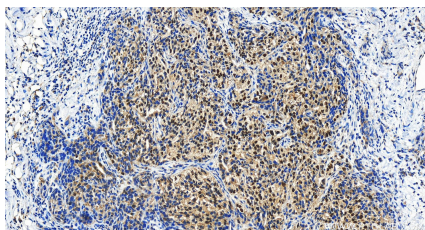
Various lysates were subjected to SDS PAGE followed by western blot with 21305-1-AP (SIX4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (10% Formaldehyde) fixed HeLa cells using 21305-1-AP (SIX4 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 21305-1-AP (SIX4 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 21305-1-AP (SIX4 antibody) at dilution of 1:500 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).