

anti- SIX2 antibody

Product Information

Catalog No.:	FNab07887
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Background

Transcription factor that plays an important role in the development of several organs, including kidney, skull and stomach. During kidney development, maintains cap mesenchyme multipotent nephron progenitor cells in an undifferentiated state by opposing the inductive signals emanating from the ureteric bud and cooperates with WNT9B to promote renewing progenitor cells proliferation. Acts through its interaction with TCF7L2 and OSR1 in a canonical Wnt signaling independent manner preventing transcription of differentiation genes in cap mesenchyme such as WNT4. Also acts independently of OSR1 to activate expression of many cap mesenchyme genes, including itself, GDNF and OSR1. During craniofacial development plays a role in growth and elongation of the cranial base through regulation of chondrocyte differentiation. During stomach organogenesis, controls pyloric sphincter formation and mucosal growth through regulation of a gene network including NKX2-5, BMPR1B, BMP4, SOX9 and GREM1. During branchial arch development, acts to mediate HOXA2 control over the insulin-like growth factor pathway. Also may be involved in limb tendon and ligament development(By similarity). Plays a role in cell proliferation and migration.

Immunogen information

Immunogen: SIX homeobox 2

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Synonyms: Homeobox protein SIX2, Sine oculishomeobox homolog 2, SIX homeobox 2, SIX2
Observed MW: 35 kDa
UniprotID : Q9NPC8

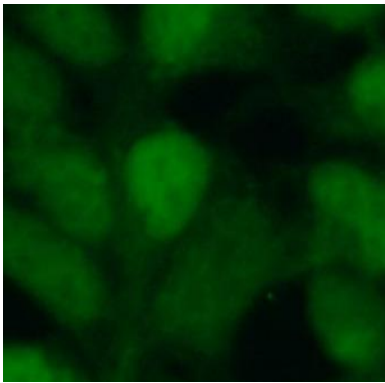
Application

Reactivity: Human, Mouse, Rat

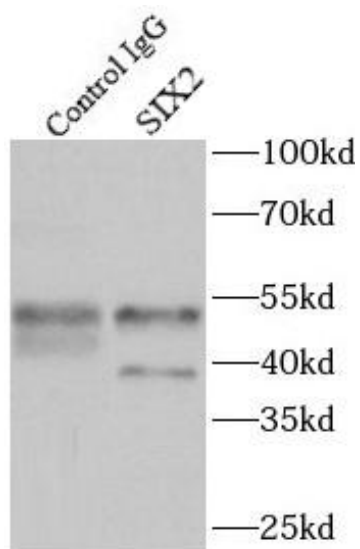
Tested Application: ELISA, IF, IP, WB

Recommended dilution: WB: 1:500-1:1000; IP: 1:500-1:1000; IF: 1:20-1:200

Image:



Immunofluorescent analysis of HEK293 cells using FNab07887(SIX2 Antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L)



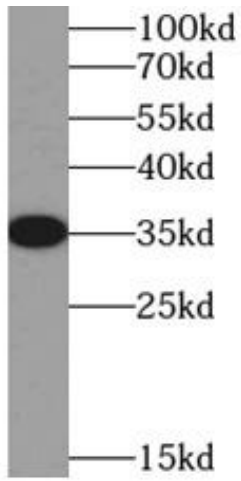
IP Result of anti-SIX2 (IP:FNab07887, 3ug; Detection:FNab07887 1:500) with HEK-293 cells lysate 2700ug.

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HEK-293 cells were subjected to SDS PAGE followed by western blot with FNab07887(SIX2 Antibody) at dilution of 1:600

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