

Product datasheet

info@arigobio.com

ARG41748 anti-SIX2 antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes SIX2

Tested Reactivity Hu, Rat

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG
Target Name SIX2

Species Human

Immunogen Synthetic peptide within aa. 200 to the C-terminus of Human SIX2 (NP_058628.3).

Conjugation Un-conjugated

Alternate Names Sine oculis homeobox homolog 2; Homeobox protein SIX2

Application Instructions

Application table	Application	Dilution
	WB	1:200 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Rat kidney	
Observed Size	~ 32 kDa	

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol SIX2

Gene Full Name SIX homeobox 2

Background This gene is a member of the vertebrate gene family which encode proteins homologous to the

Drosophila 'sine oculis' homeobox protein. The encoded protein is a transcription factor which, like other members of this gene family, may be involved in limb or eye development. [provided by RefSeq,

Dec 2008]

Function Transcription factor that plays an important role in the development of several organs, including

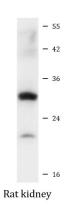
kidney, skull and stomach. During kidney development, maintains cap mesenchyme multipotent nephron progenitor cells in an undifferentiated state by opposing the inductive signals emanating from the ureteric bud and cooperates with WNT9B to promote renewing progenitor cells proliferation. Acts through 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. [UniProt]

Calculated Mw 32 kDa

Cellular Localization Nucleus. [UniProt]

Images



ARG41748 anti-SIX2 antibody WB image

Western blot: 25 μg of Rat kidney lysate stained with ARG41748 anti-SIX2 antibody at 1:1000 dilution.