

**Rabbit Anti-NKX3.2 Polyclonal: RC0052-0.1ML**

**Intended Use:** For Research Use Only

**Description:** The homeobox gene NKX3.2 (BAPX1) is the human homolog of Drosophila bagpipe, which determines cell fate in the dorsal mesoderm. In mammalian species, NKX3.2 is a key transcription factor that regulates the development of smooth muscle tissues and skeletal structures. NKX3.2 plays a role in distal stomach development; required for proper antral-pyloric morphogenesis and development of antral-type epithelium. It regulates spleen development and the development of the axial skeleton. Defects in NKX3.2 are the cause of spondylo-megaepiphyseal-metaphyseal dysplasia (SMMD). It is a skeletal dysplasia characterized by disproportionate short stature with a short and stiff neck and trunk, relatively long limbs that may show flexion contractures of the distal joints, delayed and impaired ossification of the vertebral bodies, the presence of large epiphysea ossification centers and wide growth plates in the long tubular bones and numerous pseudoepiphyses of the short tubular bones in hands and feet.

**Specifications**

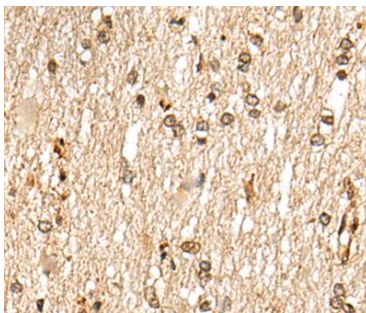
Clone:	Polyclonal
Source:	Rabbit
Isotype:	IgG
Reactivity:	Human, mouse
Immunogen:	Synthetic peptide of human NKX3.2
Localization:	Nucleus
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC, ELISA
Package:	

Description	Catalog No.	Size
NKX3.2 Polyclonal Concentrated	RC0052-0.1ML	0.1 ml

**IHC Procedure\***

Positive Control Tissue:	Brain, gastric cancer
Concentrated Dilution:	10-100
Pretreatment:	Tris EDTA pH9.0, 15 min Pressure Cooker or 30-60 min water bath at 95°-99°C
Incubation Time and Temp:	Overnight @ 4°C
Detection:	Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human brain stained with anti-NKX3.2 using DAB

**References:**

1. Comprehensive Analysis of NKX3.2 in Liver Hepatocellular Carcinoma by Bigdata. An-Na Bae, et al. Medicina (Kaunas). Oct; 59(10): 1782, 2023. doi: 10.3390/medicina59101782.
2. An evolutionarily conserved cis-regulatory element of Nkx3.2 contributes to early jaw joint morphology in zebrafish. Jake Leyhr, et al. BioRxiv. November 27, 2021.
3. Aberrant activity of NKL homeobox gene NKX3-2 in a T-ALL subset. Stefan Nagel, et al. PLoS One. 13(5): e0197194, 2018. doi: 10.1371/journal.pone.0197194.

Doc. 100-RC0052  
Rev. A