ZN423 Rabbit pAb

CatalogNo: YT6974

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB

MW
- 141kD (Calculated)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-2000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human ZN423 AA range: 848-898
Specificity	This antibody detects endogenous levels of ZN423 at Human/Mouse/Rat

Target Information

Gene name	ZNF423 KIAA0760 NPHP14 OAZ

Protein Name ZN423

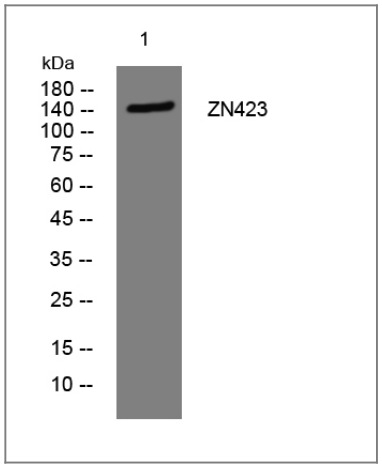
Organism	Gene ID	UniProt ID
Human	23090;	Q2M1K9;
Mouse	94187;	Q80TS5;
Rat	94188;	O08961;

Cellular Localization Nucleus .

Tissue specificity Expressed in brain, lung, skeletal muscle, heart, pancreas and kidney but not liver or placenta. Also expressed in aorta, ovary, pituitary, small intestine, fetal brain, fetal kidney and, within the adult brain, in the substantia nigra, medulla, amygdala, thalamus and cerebellum.

Function Domain:Uses different DNA- and protein-binding zinc fingers to regulate the distinct BMP-Smad and Olf signaling pathways. C2H2-type zinc fingers 14-19 mediate the interaction with SMAD1 and SMAD4, while zinc fingers 28-30 mediate the interaction with EBF1. zinc fingers 2-8 bind the 5'-CCGCCC-3' DNA sequence in concert with EBF1, while zinc fingers 9-13 bind BMP target gene promoters in concert with SMADs.,Function:Transcription factor that can both act as an activator or a repressor depending on the context. Plays a central role in BMP signaling and olfactory neurogenesis. Associates with SMADs in response to BMP2 leading to activate transcription of BMP target genes. Acts as a transcriptional repressor via its interaction with EBF1, a transcription factor involved in terminal olfactory receptor neurons differentiation; this interaction preventing EBF1 to bind DNA and activate olfactory-specific genes. Involved in olfactory neurogenesis by participating in a developmental switch that regulates the transition from differentiation to maturation in olfactory receptor neurons. Controls proliferation and differentiation of neural precursors in cerebellar vermis formation.,similarity:Belongs to the krueppel C2H2-type zinc-finger protein family.,similarity:Contains 30 C2H2-type zinc fingers.,subunit:Homodimer (By similarity). Interacts with PARP1 and EBF1 (By similarity). Interacts with SMAD1 and SMAD4.,tissue specificity:Expressed in brain, lung, skeletal muscle, heart, pancreas and kidney but not liver or placenta. Also expressed in aorta, ovary, pituitary, small intestine, fetal brain, fetal kidney and, within the adult brain, in the substantia nigra, medulla, amygdala, thalamus and cerebellum.,

Validation Data



Western blot analysis of lysates from DU145 cells, primary antibody was diluted at 1:1000, 4°over night

Contact information

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