Data Sheet (Cat.No.TMAB-14379)

TargetMol

Anti-ZNF423 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Chicken,Dog,Pig,Cow,Horse,Rabbit)
Molecular Weight:	Theoretical: 145 kDa. Actual: 145 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 µg Lane 2: Cerebellum (Mouse) Lysate at 40 µg Lane 3: Cerebrum (Rat) Lysate at 40 µg Lane 4: Cerebellum (Rat) Lysate at 40 µg Lane 5: SH-SY5Y (Human) Cell Lysate at 30 µg Primary: Anti-ZNF423 (TMAB-14379) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 145/138 kD Observed band size: 145 kD
Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human ZNF423
Antigen Species:	Human
Gene ID:	23090
Uniprot ID:	Q2M1K9

Research Background

OAZ is a 30-zinc finger, DNA-binding factor that associates with members of the Smad family of transcription factors in response to BMP2 activation. Bone morphogenic proteins (BMPs), are the largest group within the TGFʃ growth factors superfamily and are involved in embryonic development, specifically the formation of left-right asymmetry, neurogenesis, organogenesis and skeletal development. BMPs bind to surface receptors, which then phosphorylate serine residues of specific Smad proteins to induce Smad translocation to the nucleus and transcriptional activation of BMP targeted genes. OAZ specifically cooperates with the BMP-activated Smads, namely Smad1, 5 and 8, in binding to the CAGAC and TGGAGC boxes within the BRE, or BMP response element, and activating transcription. OAZ contains a BMP signaling module formed by two clusters of fingers that individually associate with either the Smads or the BMP response element. Distinct regions of OAZ, separate from the modules involved in BMP regulation, also

enable OAZ to function as a transcriptional partner of Olf-1/EBF in olfactory epithelium and lymphocyte development, indicating that, as a multi-zinc finger protein, OAZ may have dual roles in signal transduction during development.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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