**bs-12220R** **[ Primary Antibody ]**

# ZNF423 Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 23090 **SWISS:** Q2M1K9

**Target:** ZNF423

**Immunogen:** KLH conjugated synthetic peptide derived from Human ZNF423/OAZ: 901-1000/1284.

**Purification:** affinity purified by Protein A

**Concentration:** 1mg/ml

**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**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 TGF ∫ 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.

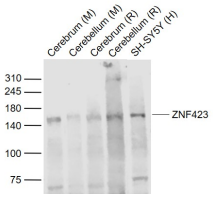
**Applications:** **WB** (1:500-2000)

**Reactivity:** Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Chicken, Dog, Horse)

**Predicted MW.:** 145 kDa

**Subcellular Location:** Nucleus

## VALIDATION IMAGES




Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Cerebellum (Mouse) Lysate at 40 ug Lane 3: Cerebrum (Rat) Lysate at 40 ug Lane 4: Cerebellum (Rat) Lysate at 40 ug Lane 5: SH-SY5Y (Human) Cell Lysate at 30 ug Primary: Anti-ZNF423 (bs-12220R) 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

## SELECTED CITATIONS

- **[IF=4.4]** Shengchen Yu. et al. LEP inhibits intramuscular adipogenesis through the AMPK signaling pathway in vitro.

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