bs-2405R **[Primary Antibody]**

AKR1B1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 231 **SWISS:** P15121

Target: AKR1B1

Immunogen: KLH conjugated synthetic peptide derived from human AKR1B1: 151-250/316.

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: This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member catalyzes the reduction of a number of aldehydes, including the aldehyde form of glucose, and is thereby implicated in the development of diabetic complications by catalyzing the reduction of glucose to sorbitol. Multiple pseudogenes have been identified for this gene. The nomenclature system used by the HUGO Gene Nomenclature Committee to define human aldo-keto reductase family members is known to differ from that used by the Mouse Genome Informatics database. [provided by RefSeq, Feb 2009]

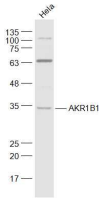
Applications: **WB** (1:500-2000)

Reactivity: Human, Mouse, Rat (predicted: Rabbit, Cow, Dog)

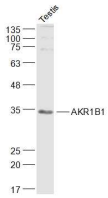
Predicted MW.: 35 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Hela(Human) Cell Lysate at 30 ug Primary: Anti-AKR1B1 (bs-2405R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 35 kD Observed band size: 34 kD



Sample: Testis (Mouse) Lysate at 40 ug Primary: Anti-AKR1B1 (bs-2405R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 35 kD Observed band size: 34 kD

SELECTED CITATIONS

- **[IF=5.2]** Luojie Liu. et al. Aberrant expression of AKR1B1 indicates poor prognosis and promotes gastric cancer progression by regulating the AKT-mTOR pathway. AGING-US. 2023 Sep 30; 15(18): 9661–9675 IHC,WB ;Human. 37751590
- **[IF=3.5]** Renzheng Zhang. et al.Proteomics and metabolomics analyses of mechanism underlying bovine sperm cryoinjury.BMC GENOMICS.2025 Jan 22;26(1):63. Western blot ;Rabbit. 39844026
- **[IF=4]** Shuai Wang. et al.Acute heat stress upregulates Akr1b3 through Nrf-2 to increase endogenous fructose leading to kidney injury.journal of biological chemistry.2025 Feb;301(2):108121. Western blot, IF ;Mouse. 39710324