

bs-3676R**[Primary Antibody]****Bioss**
ANTIBODIES

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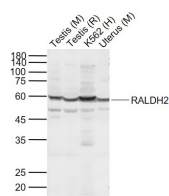
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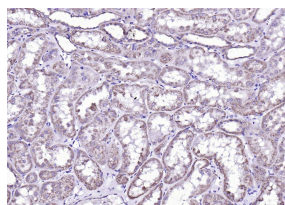
400-901-9800

ALDH1A2 Rabbit pAb**— DATASHEET —**

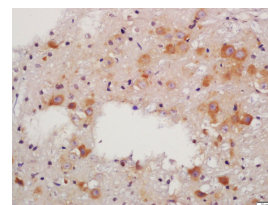
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Dog, Horse) Predicted MW.: 56 kDa Subcellular Location: Cytoplasm
Clonality: Polyclonal		
GeneID: 8854	SWISS: O94788	
Target: ALDH1A2		
Immunogen: KLH conjugated synthetic peptide derived from human RALDH2: 441-518/518.		
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: ALDH1A2 belongs to the aldehyde dehydrogenase family of proteins. It is an enzyme that catalyzes the synthesis of retinoic acid (RA) from retinaldehyde. Retinoic acid, the active derivative of vitamin A (retinol), is a hormonal signaling molecule that functions in developing and adult tissues. The studies of a similar mouse gene suggest that this enzyme and the cytochrome CYP26A1, concurrently establish local embryonic retinoic acid levels which facilitate posterior organ development and prevent spina bifida.		

— VALIDATION IMAGES —

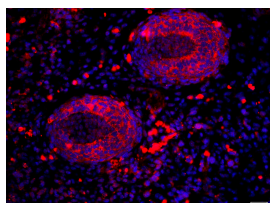
Sample: Lane 1: Testis (Mouse) Lysate at 40 ug
Lane 2: Testis (Rat) Lysate at 40 ug Lane 3: K562 (Human) Cell Lysate at 30 ug Lane 4: Uterus (Mouse) Lysate at 40 ug
Primary: Anti-RALDH2 (bs-3676R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 56 kD
Observed band size: 60 kD



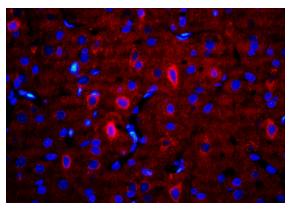
Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RALDH2) Polyclonal Antibody, Unconjugated (bs-3676R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-RALDH2 Polyclonal Antibody, Unconjugated (bs-3676R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody (SP-0023) and DAB (C-0010) staining



Tissue/cell: mouse embryo tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-RALDH2



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Incubation: Anti-RALDH2

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Polyclonal Antibody, Unconjugated(bs-3676R)
1:200, overnight at 4°C; The secondary antibody
was Goat Anti-Rabbit IgG, Cy3
conjugated(bs-0295G-Cy3)used at 1:200 dilution
for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033)
was used to stain the cell nuclei

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conjugated(bs-0295G-Cy3)used at 1:200 dilution
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— SELECTED CITATIONS —

- **[IF=6.208]** Hong Wang. et al. Tankyrase Inhibition Attenuates Cardiac Dilatation and Dysfunction in Ischemic Heart Failure. INT J MOL SCI. 2022 Jan;23(17):10059 IF ;Zebrafish. 36077457