

**bs-11706R****[ Primary Antibody ]****AKR7A2 Rabbit pAb****BioSS**  
**ANTIBODIES**

www.bioss.com.cn

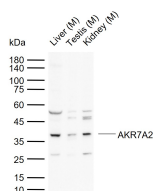
sales@bioss.com.cn

techsupport@bioss.com.cn

400-901-9800

**— DATASHEET —**

<b>Host:</b> Rabbit	<b>Isotype:</b> IgG	<b>Applications:</b> WB (1:500-2000)
<b>Clonality:</b> Polyclonal		
<b>GeneID:</b> 8574	<b>SWISS:</b> O43488	
<b>Target:</b> AKR7A2		
<b>Immunogen:</b> KLH conjugated synthetic peptide derived from human AKR7A2: 81-150/359.		
<b>Purification:</b> affinity purified by Protein A		<b>Reactivity:</b> Mouse (predicted: Human, Rat)
<b>Concentration:</b> 1mg/ml		<b>Predicted MW.:</b> 40 kDa
<b>Storage:</b> 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.		<b>Subcellular Location:</b> Cytoplasm
<b>Background:</b> The aldo-keto reductase 7 (AKR7) family includes AKR7A2, AKR7A3 and AKR7A4 in human, AKR7A5 in mouse and AKR7A2 in rat, all of which function in the metabolism of aflatoxin B(1) and other dicarbonyl-containing compounds. More specifically, AKR7A proteins are involved in the metabolism of compounds with ketone groups on adjacent carbon atoms in a broad range of tissues, notably the liver. The human AKR7A2 gene maps to human chromosome 1p35-36, a region frequently deleted in sporadic colorectal cancer. The functional significance of this correlation lies in the constitutive expression of AKR7A2 in human liver to eliminate aflatoxin (an environmental carcinogen), thus acting as an endogenous chemo-preventative agent.		

**— VALIDATION IMAGES —**

Sample: Lane 1: Mouse Liver tissue lysates Lane 2: Mouse Testis tissue lysates Lane 3: Mouse Kidney tissue lysates Primary: Anti-AKR7A2 (bs-11706R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 40 kDa Observed band size: 37 kDa