

## ARY2 rabbit pAb

<b>Catalog No :</b>	YT7703
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB
<b>Target :</b>	ARY2
<b>Fields :</b>	>>Caffeine metabolism;>>Drug metabolism - other enzymes;>>Metabolic pathways;>>Chemical carcinogenesis - DNA adducts
<b>Gene Name :</b>	NAT2 AAC2
<b>Protein Name :</b>	ARY2
<b>Human Gene Id :</b>	10
<b>Human Swiss Prot No :</b>	P11245
<b>Mouse Gene Id :</b>	17961
<b>Mouse Swiss Prot No :</b>	P50295
<b>Rat Gene Id :</b>	116632
<b>Rat Swiss Prot No :</b>	P50298
<b>Immunogen :</b>	Synthesized peptide derived from human ARY2 AA range: 80-130
<b>Specificity :</b>	This antibody detects endogenous levels of ARY2 at Human/Mouse/Rat
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000

**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Concentration :** 1 mg/ml

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Molecularweight :** 32kD

**Background :** This gene encodes an enzyme that functions to both activate and deactivate arylamine and hydrazine drugs and carcinogens. Polymorphisms in this gene are responsible for the N-acetylation polymorphism in which human populations segregate into rapid, intermediate, and slow acetylator phenotypes. Polymorphisms in this gene are also associated with higher incidences of cancer and drug toxicity. A second arylamine N-acetyltransferase gene (NAT1) is located near this gene (NAT2). [provided by RefSeq, Jul 2008],

**Function :** catalytic activity:Acetyl-CoA + an arylamine = CoA + an N-acetylarlyamine.,disease:Genetic variations in NAT2 determine N-acetylation polymorphism by a low or high NAT activity in the liver [MIM:243400]. It has been implicated in the action and toxicity of amine-containing drugs, and in the susceptibility to bladder cancer and systemic lupus erythematosus. This isozyme is responsible for this polymorphism.,function:Participates in the detoxification of a plethora of hydrazine and arylamine drugs. Catalyzes the N- or O-acetylation of various arylamine and heterocyclic amine substrates and is able to bioactivate several known carcinogens.,online information:NAT alleles,online information:The Singapore human mutation and polymorphism database,similarity:Belongs to the arylamine N-acetyltransferase family.,

**Subcellular Location :** Cytoplasm.

## Products Images

