



AAT1 Polyclonal Antibody

Catalog No	YP-Ab-05312
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	AAT1 C3orf15
Immunogen	Synthesized peptide derived from human protein . at AA range: 310-390
Specificity	AAT1 Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	AAT1;Alanine aminotransferase 1;ALAT1;ALT1;GPT;GPT 1;GPT/ ALT1;GPT1; AAT1 C3orf15;AMY-1-associating protein expressed in testis 1 (AAT-1)
Observed Band	50-55 kDa
Calculated Molecular Weight	496 aa, 55 kDa
Cell Pathway	Mitochondrion . Cytoplasm . Cytoplasm, cytoskeleton, cilium axoneme . Localized in the neck of the sperm.; [Isoform 7]: Cytoplasm .
Tissue Specificity	[Isoform 1]: Strongly expressed in the liver.; [Isoform 7]: Widely expressed, but strongly expressed in all spermatogenesis-related tissues, including the testis, the epithelium of cauda and the corpus epididymis, as well as the spermatid and mature sperm. Also expressed in Leydig cells.
Function	alternative products:Additional isoforms (AAT-1L and AAT-1S) may exist, function:Isoform 4 may play a role in spermatogenesis.,PTM:Isoform 4 is phosphorylated by PKA.,subcellular location:Isoform 4 is found in the mitochondria and localized in the neck of the sperm.,subunit:Interacts with AMY1 and AKAP1. Isoform 4 belongs to a complex together with AMY1, AKAP1 and PRKAR2B. Isoform 3 does not interact with AMY1.,tissue specificity:Isoform 1 is strongly expressed in the liver. Isoform 4 is widely expressed, but strongly expressed in all spermatogenesis-related tissues, including the testis, the



epithelium of cauda and the corpus epididymis. Isoform 4 is present in the spermatid and mature sperm. Isoform 4 is also expressed in Leydig cells. Isoform 3 is expressed in the testis.,

Background

alternative products:Additional isoforms (AAT-1L and AAT-1S) may exist, function:Isoform 4 may play a role in spermatogenesis.,PTM:Isoform 4 is phosphorylated by PKA.,subcellular location:Isoform 4 is found in the mitochondria and localized in the neck of the sperm.,subunit:Interacts with AMY1 and AKAP1. Isoform 4 belongs to a complex together with AMY1, AKAP1 and PRKAR2B. Isoform 3 does not interact with AMY1.,tissue specificity:Isoform 1 is strongly expressed in the liver. Isoform 4 is widely expressed, but strongly expressed in all spermatogenesis-related tissues, including the testis, the epithelium of cauda and the corpus epididymis. Isoform 4 is present in the spermatid and mature sperm. Isoform 4 is also expressed in Leydig cells. Isoform 3 is expressed in the testis.,

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images