

Names for YT (ISBT 011) Blood Group Alleles

General description: The Yt blood group system consists of 2 antigens carried on a GPI-linked glycoprotein (AChE) that consists of 585 amino acids. It has a leader sequence of 31 amino acids and a GPI motif of 29 amino acids, both of which are cleaved from the membrane bound protein. The protein is encoded by *ACHE*, or *YT* if analysis is to predict a blood group antigen.

Gene name: *YT*
 Number of exons: 6
 Initiation codon: Beginning of exon 2
 Stop codon: Within exon 6
 Entrez Gene ID: 43
 LRG sequence: NG_011627.1 (genomic)
 NM_175569.2 (transcript)
 Reference allele: *YT*01* (shaded)
 Acceptable: *YT*A*, or *Yt^a* if inferred by haemagglutination

Reference allele <i>YT*01</i> encodes YT1				
Phenotype	Allele name	Nucleotide change	Exon	Predicted amino acid change
YT:1 or Yt(a+)	<i>YT*01</i> or <i>YT*A</i>			
YT:2 or Yt(b+)	<i>YT*02</i> or <i>YT*B</i>	c.1057C>A	2	p.His353Asn