Names for OK (ISBT 024) Blood Group Alleles

Intro

The OK blood group system consists of 3 antigens carried on a single pass type I membrane glycoprotein with 2 IgSF domains called Basigin (aka CD147, neurothelin, EMMPRIN). It consists of 248 amino acids and has a leader sequence of 21 amino acids, which is cleaved from the membrane bound protein.			
ОК			
8			
codon: Beginning of exon 1			
End of exon 8			
682			
LRG_816			
NG_007468.1 (genomic)			
NM_001728.4 (transcript)			
OK*01 (shaded)			
Acceptable: OK^*A , or Ok^a if inferred by haemagglutination			
OK1, OK2 and OK3			

Phenotype	Allele name	Nucleotide change		Predicted amino acid change	(Reference No.) PMID	Accession number	rs number
OK:1 or Ok(a+)	OK*01.01				PMID: 9130641	L10240	
OK:–1 or Ok(a–)	OK*01.–01	c.274G>A	4	p.Glu92Lys	PMID: 9130641		
OK:–2 or OKGV–	OK*01.–02	c.176G>T	2	p.Gly59Val	(1), Abstract		
OK:–3 or OKVM–	OK*01.–03	c.178G>A	2	p.Val60Met	(2), Abstract		

References

- PMID 9130641 Spring FA, Holmes CH, Simpson KL, Mawby WJ, Mattes MJ, Okubo Y, Parsons SF. The Oka blood group antigen is a marker for the M6 leukocyte activation antigen, the human homolog of OX-47 antigen, basigin and neurothelin, an immunoglobulin superfamily molecule that is widely expressed in human cells and tissues. Eur J Immunol. 1997 Apr;27(4):891-7.
- Abstract (1) Karamatic Crew V et al.. Transfusion Medicine 2003 ; 13 : 32 (suppl. 1)
- Abstract (2) Karamatic Crew V et al. Transfusion Medicine 2006 ; 16 : 41 (suppl.1)

Track of changes

			from	to
1	Version		v4.0 10th April 2019	v5.0 31-MAR-2022
2 3		created reviewed	New York Blood Center, 10th April 2019 n.a.	Yoshihiko Tani, February 2022 Frederik Banch Clausen, February 2022
4	General		Word version	First Excel map version. Spread-sheets 'Intro', 'Allele Table', 'References', and 'Versioning' created.
5		changed numbering		Changed References [1], [2] to Abstract (1), (2)
6	6 End Version		v4.0 10th April 2019	v5.0 31-MAR-2022

Track of changes

		from	to
1	Version	v4.0 160622	v4.0 10th April 2019
_	Author created Reviewer reviewed	New York Blood Center, 22nd June 2016 n.a.	New York Blood Center, 10th April 2019 n.a.
4	General	Word version	Word version
5	General		Colour changed from red to black
6	Version		Version number changed
7	End Version	v4.0 160622	v4.0 10th April 2019