MAYO CLINIC LABORATORIES

1-800-533-1710

AK1

Adenylate Kinase Enzyme Activity, Blood

Patient ID	Patient Name		Birth Date	Gender	Age
SA00140504	VALIDATION TESTING, AK1		2000-01-01	M	20
Order Number	**Client Order Number**	**Ordering Physician**	**Report Notes**		
SA00140504	SA00140504	CLIENT,CLIENT			
Account Information		**Collected**			
C7028846 DLMP Rochester		24 Nov 2020 07:25			

Adenylate Kinase, B

Result Name	Value	Unit	Reference Value	Performing Site
Low **Adenylate Kinase, B**	**50**	U/g Hb	195–276	1 MCR

Adenylate Kinase (AK) activity level is 21% of mean normal range. Clinically significant hemolytic anemias due to AK deficiency are usually associated with activity levels <30% of mean normal, although rare cases have been associated with AK activity of 44%. Heterozygotes usually show normal to mildly decreased AK activity and are hematologically normal. Correlation with clinical features is necessary. Clinically significant AK deficiency is a rare autosomal recessive disorder that manifests in chronic non-spherocytic anemia and sometimes in neurologic impairment. Other symptoms include neonatal jaundice, early gallstones and splenomegaly [Niizuma et al. 2017 PMID:28211224].

Received: 24 Nov 2020 13:31

Reported: 24 Nov 2020 13:53

Test Environment EVP Template

Laboratory Notes

1 This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

Performing Site Legend

Code	Laboratory	Address	Lab Director	CLIA Certificate
MCR	Mayo Clinic Laboratories - Rochester Main Campus	200 First Street SW, Rochester, MN 55905	William G. Morice M.D. Ph.D	24D0404292