abcam

Product datasheet

Recombinant Human GATM protein ab123149

画像数 1

製品の詳細

製品名	Recombinant Human GATM protein
精製度	> 90 % SDS-PAGE. ab123149 was purified using conventional chromatography.
発現系	Escherichia coli
アクセッション番号	P50440
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
配列	MGSSHHHHHHSSGLVPRGSHMGSMSTQAATASSRNSCAADDK ATEPLPKD CPVSSYNEWDPLEEVIVGRAENACVPPFTIEVKANTYEKYWP FYQKQGGH YFPKDHLKKAVAEIEEMCNILKTEGVTVRRPDPIDWSLKYKT PDFESTGL YSAMPRDILIVVGNEIIEAPMAWRSRFFEYRAYRSIIKDYFH RGAKWTTA PKPTMADELYNQDYPIHSVEDRHKLAAQGKFVTTEFEPCFDA ADFIRAGR DIFAQRSQVTNYLGIEWMRRHLAPDYRVHIISFKDPNPMHID ATFNIIGP GIVLSNPDRPCHQIDLFKKAGWTIITPPTPIIPDDHPLWMSS KWLSMNVL MLDEKRVMVDANEVPIQKMFEKLGITTIKVNIRNANSLGGGF HCWTCDVR RRGTLQSYLD
予測される分子量	47 kDa including tags
領域	38 to 423
タグ	His tag N-Terminus

特性

Our **Abpromise guarantee** covers the use of **ab123149** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	SDS-PAGE
	Mass Spectrometry
質量分析	MALDI-TOF
製品の状態	Liquid

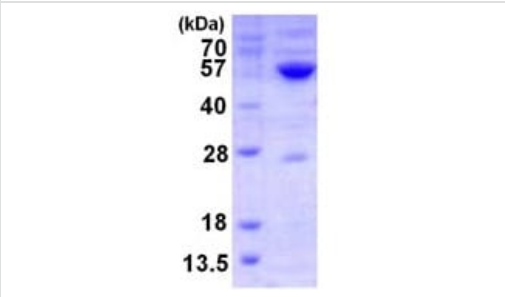
前処理および保存

保存方法および安定性	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
	pH: 8.00 Constituents: 0.03% DTT, 0.32% Tris HCl, 10% Glycerol (glycerin, glycerine), 1.17% Sodium chloride

関連情報

機能	Catalyzes the biosynthesis of guanidinoacetate, the immediate precursor of creatine. Creatine plays a vital role in energy metabolism in muscle tissues. May play a role in embryonic and central nervous system development. May be involved in the response to heart failure by elevating local creatine synthesis.
組織特異性	Expressed in brain, heart, kidney, liver, lung, salivary gland and skeletal muscle tissue, with the highest expression in kidney. Biallelically expressed in placenta and fetal tissues.
パスウェイ	Amine and polyamine biosynthesis; creatine biosynthesis; creatine from L-arginine and glycine: step 1/2.
関連疾患	Defects in GATM are the cause of arginine:glycine amidinotransferase deficiency (AGAT deficiency) [MIM:612718]. AGAT deficiency is an autosomal recessive disorder characterized by developmental delay/regression, mental retardation, severe disturbance of expressive and cognitive speech, and severe depletion of creatine/phosphocreatine in the brain.
配列類似性	Belongs to the amidinotransferase family.
ドメイン	One chain folds into a compact single domain composed of repeating units, five beta-beta-alpha-beta modules, which surround the central active site.
細胞内局在	Mitochondrion inner membrane. Cytoplasm. The mitochondrial form is found in the intermembrane space probably attached to the outer side of the inner membrane.

画像



SDS-PAGE - Recombinant Human GATM protein (ab123149)

15% SDS PAGE, 3 µg of ab123149 loaded.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.co.jp/abpromise** or contact our technical team.

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