

Product datasheet

Recombinant human BRDT protein ab198111

2 Images

Description

Product name	Recombinant human BRDT protein	
Biological activity	BRDT protein is incubated with biotinylated acetyl-histone peptide substrate in BRD assay buffer in a 10 µl reaction for 1 hour at RT. GSH acceptor beads are added, followed by Streptavidin-conjugated donor beads. After 1 hour incubation at RT, Alphacounts are measured.	
Purity	> 97 % SDS-PAGE.	
Expression system	Escherichia coli	
Accession	Q58F21	
Protein length	Protein fragment	
Animal free	No	
Nature	Recombinant	
Species	Human	
Sequence	TKKNGRLTNQLQYLQKVVLKDLWKHSFSWPFQRPVD AVKLQLPDYYTIK NPMDLNTIKKRLLENKYYAKASECIEDFNTMFSNCYLYN KPGDDIVLMAQA LEKLFMQKLSQMPQEEQ	
Predicted molecular weight	41 kDa including tags	
Amino acids	22 to 138	
Tags	GST tag N-Terminus	
Additional sequence information	GenBank Accession No. NM_207189	

Specifications

Our [Abpromise guarantee](#) covers the use of **ab198111** in the following tested applications.

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

Applications	SDS-PAGE Functional Studies
Form	Liquid
Additional notes	ab198111 is useful for the study of bromodomain binding assays, screening inhibitors, and selectivity profiling.

Preparation and Storage

Stability and Storage

Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.

pH: 8

Constituents: 0.79% Tris HCl, 0.8% Sodium chloride, 0.02% Potassium chloride, 0.03% EDTA, 10% Glycerol, 0.02% DTT

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function

May play a role in the transcriptional regulation of spermatogenesis. Seems to have a structural ATP-independent role in the reorganization of acetylated chromatin.

Tissue specificity

Testis-specific. A 3-fold higher expression is seen in adult testis than in embryo testis. Expression seems to be correlated with histone H4 hyperacetylation during the haploid phase of spermatogenesis (spermiogenesis). No expression, or very low expression is seen in patients' testes with abnormal spermatogenesis. Expressed in cancers such as non-small cell lung cancer and squamous cell carcinomas of the head and neck as well as of esophagus, but not in melanoma or in cancers of the colon, breast, kidney and bladder.

Sequence similarities

Contains 2 bromo domains.

Developmental stage

Expressed in embryo testis.

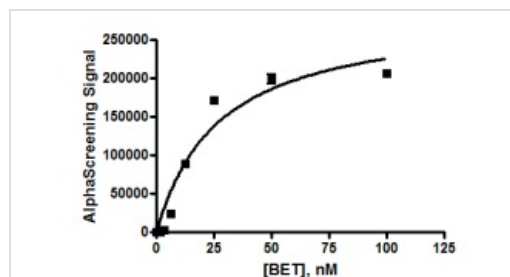
Domain

The two bromodomains are involved in the specific recognition of histone H4 acetylated N-terminus.

Cellular localization

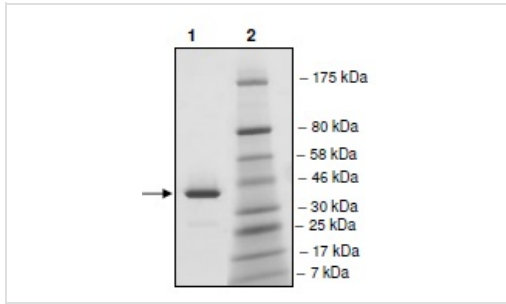
Nucleus.

Images



Activity assay for ab198111.

Functional Studies - Recombinant human BRDT protein (ab198111)



4-20% SDS-PAGE analysis of ab198111.

Lane 1: 0.5 µg ab198111

Lane 2: Protein marker

Stained with Coomassie Blue

SDS-PAGE - Recombinant human BRDT protein
(ab198111)

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

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