

**BRD6 / BRDT Antibody (C-Term)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF2307a****Specification**

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**BRD6 / BRDT Antibody (C-Term) - Product Information**

Application	E
Primary Accession	<a href="#">Q58F21</a>
Other Accession	<a href="#">NP_001717.2</a> , <a href="#">NP_997072.1</a> , <a href="#">676</a> , <a href="#">114642</a> (mouse)
Predicted	Human, Mouse, Rat, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	107954

**BRD6 / BRDT Antibody (C-Term) - Additional Information****Gene ID** 676**Other Names**

Bromodomain testis-specific protein, Cancer/testis antigen 9, CT9, RING3-like protein, BRDT

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

BRD6 / BRDT Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

**BRD6 / BRDT Antibody (C-Term) - Protein Information****Name** BRDT**Function**

Testis-specific chromatin protein that specifically binds histone H4 acetylated at 'Lys-5' and 'Lys-8' (H4K5ac and H4K8ac, respectively) and plays a key role in spermatogenesis (PubMed:<a href="http://www.uniprot.org/citations/22464331" target="\_blank">22464331</a>, PubMed:<a href="http://www.uniprot.org/citations/22901802" target="\_blank">22901802</a>). Required in late pachytene spermatocytes: plays a role in meiotic and post-meiotic cells by binding to acetylated histones at the promoter of specific meiotic and post-meiotic genes, facilitating their activation at the appropriate time (PubMed:<a href="http://www.uniprot.org/citations/22901802" target="\_blank">22901802</a>).

target="\_blank">22901802</a>). In the post-meiotic phase of spermatogenesis, binds to hyperacetylated histones and participates in their general removal from DNA (PubMed:<a href="http://www.uniprot.org/citations/22901802" target="\_blank">22901802</a>). Also recognizes and binds a subset of butyrylated histones: able to bind histone H4 butyrylated at 'Lys-8' (H4K8ac), while it is not able to bind H4 butyrylated at 'Lys-5' (H4K5ac) (By similarity). Also acts as a component of the splicing machinery in pachytene spermatocytes and round spermatids and participates in 3'-UTR truncation of specific mRNAs in post-meiotic spermatids (By similarity). Required for chromocenter organization, a structure comprised of peri-centromeric heterochromatin.

#### **Cellular Location**

Nucleus. Note=Detected on chromatin {ECO:0000250|UniProtKB:Q91Y44}

#### **Tissue Location**

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

#### **BRD6 / BRDT Antibody (C-Term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **BRD6 / BRDT Antibody (C-Term) - Images**

#### **BRD6 / BRDT Antibody (C-Term) - Background**

Variants (NP\_001717.2; NP\_997072.1) encode the same protein.

#### **BRD6 / BRDT Antibody (C-Term) - References**

Identification and characterization of BRDT: A testis-specific gene related to the bromodomain genes RING3 and Drosophila fsh. Jones MH, Numata M, Shimane M. Genomics. 1997 Nov 1;45(3):529-34. PMID: 9367677