

**SEPT4 (aa33-44) Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3356a****Specification**

---

**SEPT4 (aa33-44) Antibody (internal region) - Product Information**

Application	WB, E
Primary Accession	<a href="#">O43236</a>
Other Accession	<a href="#">NP_004565.1</a> , <a href="#">NP_536340.1</a> , <a href="#">NP_536341.1</a> , <a href="#">NP_001185642.1</a> , <a href="#">5414</a> , <a href="#">18952 (mouse)</a>
Reactivity	Human, Mouse
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	55098

**SEPT4 (aa33-44) Antibody (internal region) - Additional Information****Gene ID** 5414**Other Names**

Septin-4, Apoptosis-related protein in the TGF-beta signaling pathway, ARTS, Bradeion beta, Brain protein H5, CE5B3 beta, Cell division control-related protein 2, hCDCREL-2, Cerebral protein 7, Peanut-like protein 2, SEPT4, ARTS, PNUTL2, SEP4

**Dilution**

WB~~1:1000

E~~N/A

**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**

SEPT4 (aa33-44) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**SEPT4 (aa33-44) Antibody (internal region) - Protein Information****Name** SEPTIN4 ([HGNC:9165](#))**Function**

Filament-forming cytoskeletal GTPase (Probable). Pro- apoptotic protein involved in LGR5-positive

intestinal stem cell and Paneth cell expansion in the intestines, via its interaction with XIAP (By similarity). May also play a role in the regulation of cell fate in the intestine (By similarity). Positive regulator of apoptosis involved in hematopoietic stem cell homeostasis; via its interaction with XIAP (By similarity). Negative regulator of repair and hair follicle regeneration in response to injury, due to inhibition of hair follicle stem cell proliferation, potentially via its interaction with XIAP (By similarity). Plays an important role in male fertility and sperm motility (By similarity). During spermiogenesis, essential for the establishment of the annulus (a fibrous ring structure connecting the midpiece and the principal piece of the sperm flagellum) which is a requisite for the structural and mechanical integrity of the sperm (By similarity). Involved in the migration of cortical neurons and the formation of neuron leading processes during embryonic development (By similarity). Required for dopaminergic metabolism in presynaptic autoreceptors; potentially via activity as a presynaptic scaffold protein (By similarity).

#### Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P28661}. Cell projection, cilium, flagellum Cytoplasmic vesicle, secretory vesicle Cell projection, axon {ECO:0000250|UniProtKB:P28661}. Cell projection, dendrite {ECO:0000250|UniProtKB:P28661}. Perikaryon {ECO:0000250|UniProtKB:P28661}. Synapse Note=In platelets, found in areas surrounding alpha-granules (PubMed:15116257). Found in the sperm annulus, a fibrous ring structure connecting the midpiece and the principal piece of the sperm flagellum (PubMed:25588830). Expressed and colocalized with SLC6A3 and SNCA in axon terminals, especially at the varicosities (By similarity) {ECO:0000250|UniProtKB:P28661, ECO:0000269|PubMed:15116257, ECO:0000269|PubMed:25588830}

#### Tissue Location

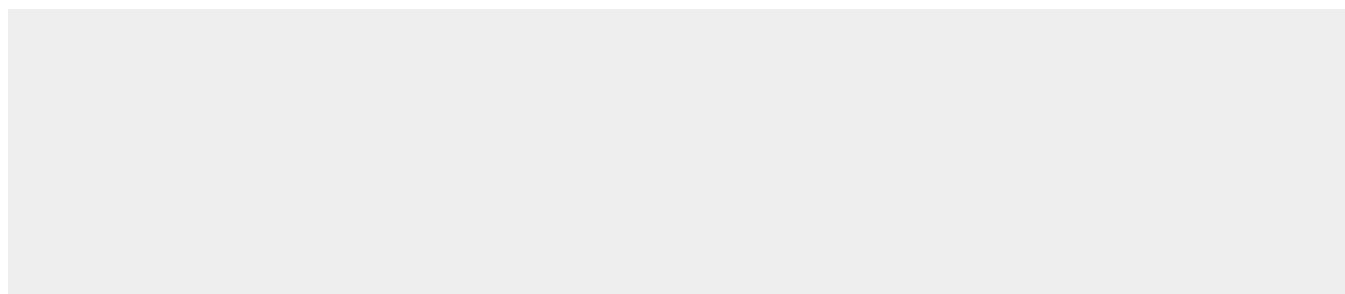
Widely expressed in adult and fetal tissues with highest expression in adult brain (at protein level), heart, liver and adrenal gland and fetal heart, kidney, liver and lung. Expressed in presynaptic terminals of dopaminergic neurons projecting from the substantia nigra pars compacta to the striatum (at protein level) (PubMed:17296554). Expressed in axonal varicosities in dopaminergic nerve terminals (at protein level) (PubMed:17296554). Expressed in the putamen and in the adjacent cerebral cortex (at protein level) (PubMed:17296554). Expressed in colonic crypts (at protein level) (PubMed:30389919). Also expressed in colorectal cancers and malignant melanomas. Expressed in platelets.

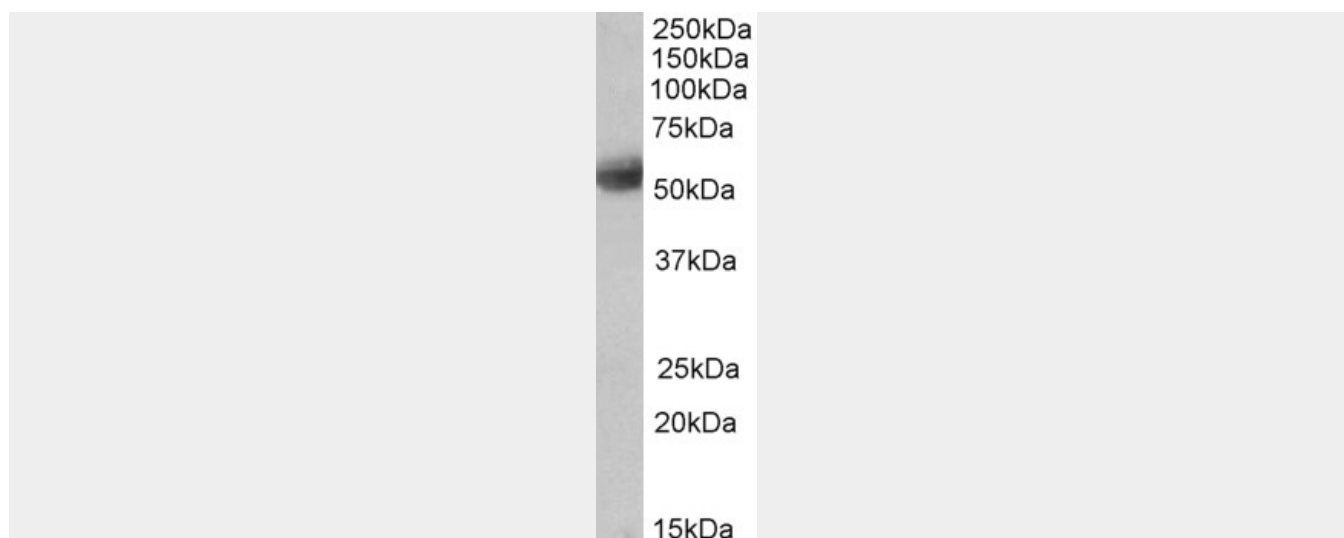
#### SEPT4 (aa33-44) Antibody (internal region) - Protocols

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](#)

#### SEPT4 (aa33-44) Antibody (internal region) - Images





AF3356a (0.5 µg/ml) staining of Human Cerebellum lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **SEPT4 (aa33-44) Antibody (internal region) - Background**

This antibody is expected to recognize all reported isoforms (NP\_004565.1; NP\_536340.1; NP\_536341.1, NP\_001185642.1). Amino acid numbering in name refers to NP\_004565.1 sequence.

#### **SEPT4 (aa33-44) Antibody (internal region) - References**

Absence of annulus in human asthenozoospermia: case report. Lhuillier P, Rode B, Escalier D, Lorès P, Dirami T, Bienvenu T, Gacon G, Dulioust E, Touré A Human reproduction (Oxford, England) 2009 Jun 24 (6): 1296-303. PMID: 19221096