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ABHD2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13083c

Specification

ABHD2 Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P08910
Other Accession	Q9QXM0, Q4R2Y9, Q5EA42, NP_690888.1
Reactivity	**Human**
Predicted	**Bovine, Monkey, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**48315**
Antigen Region	**263-292**

ABHD2 Antibody (Center) - Additional Information

Gene ID 11057

Other Names
Abhydrolase domain-containing protein 2, 311-, Lung alpha/beta hydrolase 2, Protein PHPS1-2, ABHD2, LABH2

Target/Specificity
This ABHD2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 263-292 amino acids from the Central region of human ABHD2.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

Precautions
ABHD2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

ABHD2 Antibody (Center) - Protein Information

Name ABHD2 (HGNC:18717)

Function Progesterone-dependent acylglycerol lipase that catalyzes hydrolysis of endocannabinoid arachidonoylglycerol (AG) from cell membrane (PubMed:26989199). Acts as a progesterone receptor: progesterone-binding activates the acylglycerol lipase activity, mediating degradation of 1-arachidonoylglycerol (1AG) and 2- arachidonoylglycerol (2AG) to glycerol and arachidonic acid (AA) (PubMed:26989199). Also displays an ester hydrolase activity against acetyl ester, butanoate ester and hexadecanoate ester (PubMed:27247428). Plays a key role in sperm capacitation in response to progesterone by mediating degradation of 2AG, an inhibitor of the sperm calcium channel CatSper, leading to calcium influx via CatSper and sperm activation (PubMed:26989199). May also play a role in smooth muscle cells migration (By similarity).

Cellular Location
Cell projection, cilium, flagellum membrane; Single-pass type II membrane protein. Cell membrane; Single-pass type II membrane protein

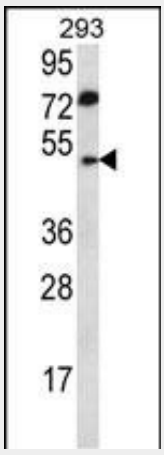
Tissue Location
Present in sperm (at protein level).

ABHD2 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ABHD2 Antibody (Center) - Images



ABHD2 Antibody (Center) (Cat. #AP13083c) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the ABHD2 antibody detected the ABHD2 protein (arrow).

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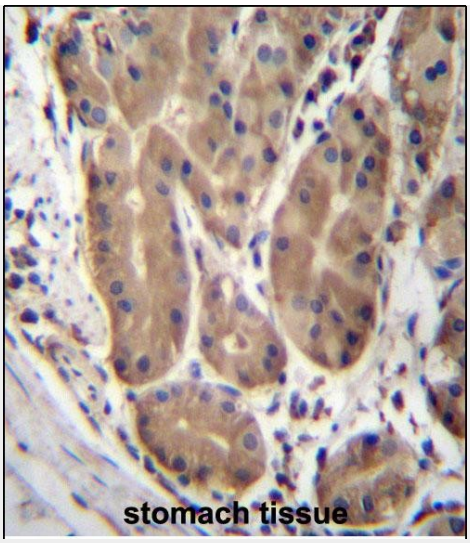

ABHD2 Antibody (Center) (Cat. #AP13083c)immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ABHD2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

ABHD2 Antibody (Center) - Background

This gene encodes a protein containing an alpha/beta hydrolase fold, which is a catalytic domain found in a very wide range of enzymes. The function of this protein has not been determined. Alternative splicing of this gene results in two transcript variants encoding the same protein. [provided by RefSeq].

ABHD2 Antibody (Center) - References

Giambra, V., et al. J. Immunol. 183(12):8280-8285(2009)
Miyata, K., et al. Biochem. Biophys. Res. Commun. 365(2):207-213(2008)
Edgar, A.J., et al. Biochem. Biophys. Res. Commun. 292(3):617-625(2002)
Rapiejko, P.J., et al. Nucleic Acids Res. 16 (17), 8721 (1988) :