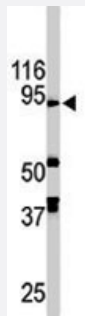


AOF2 polyclonal antibody

Catalog # PAB1843

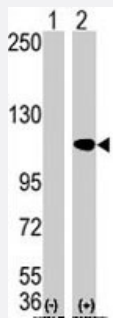
Size 400 uL

Applications



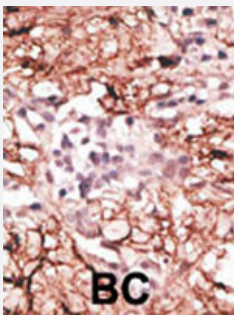
Western Blot (Tissue lysate)

Western blot analysis of AOF2 polyclonal antibody (Cat # PAB1843) in mouse brain tissue lysate (35 ug/lane). AOF2 (arrow) was detected using the purified polyclonal antibody.



Western Blot (Transfected lysate)

Western blot analysis of AOF2 (arrow) using AOF2 polyclonal antibody (Cat # PAB1843). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the AOF2 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human breast cancer tissue reacted with AOF2 polyclonal antibody (Cat # PAB1843), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description

Rabbit polyclonal antibody raised against synthetic peptide of Aof 2.

Immunogen

A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human AOF2.

Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Ammonium sulfate precipitation
Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

Western blot analysis of AOF2 polyclonal antibody (Cat # PAB1843) in mouse brain tissue lysate (35 ug/lane). AOF2 (arrow) was detected using the purified polyclonal antibody.

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Gene Info — AOF2

Entrez GeneID	23028
Protein Accession#	NP_055828;O60341
Gene Name	AOF2
Gene Alias	BHC110, KDM1, KIAA0601, LSD1

Gene Description	amine oxidase (flavin containing) domain 2
Omim ID	609132
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a nuclear protein containing a SWIRM domain, a FAD-binding motif, and an amine oxidase domain. This protein is a component of several histone deacetylase complexes, through which it silences genes by functioning as a histone demethylase. Alternative splicing results in multiple transcript variants. [provided by RefSeq]
Other Designations	BRAF35-HDAC complex protein BHC110 FAD-binding protein BRAF35-HDAC complex, 110 kDa subunit lysine (K)-specific demethylase 1 lysine-specific histone demethylase 1

Publication Reference

- [Histone demethylation catalysed by LSD1 is a flavin-dependent oxidative process.](#)

Forneris F, Binda C, Vanoni MA, Mattevi A, Battaglioli E.

FEBS Letters 2005 Apr; 579(10):2203.

- [Histone demethylation mediated by the nuclear amine oxidase homolog LSD1.](#)

Shi Y, Lan F, Matson C, Mulligan P, Whetstine JR, Cole PA, Casero RA, Shi Y.

Cell 2004 Dec; 119(7):941.

- [A candidate X-linked mental retardation gene is a component of a new family of histone deacetylase-containing complexes.](#)

Hakimi MA, Dong Y, Lane WS, Speicher DW, Shiekhattar R.

The Journal of Biological Chemistry 2003 Feb; 278(9):7234.

Application: Func, WB, Human, HeLa cells