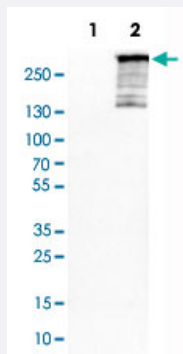


ARID1A monoclonal antibody, clone CL3595

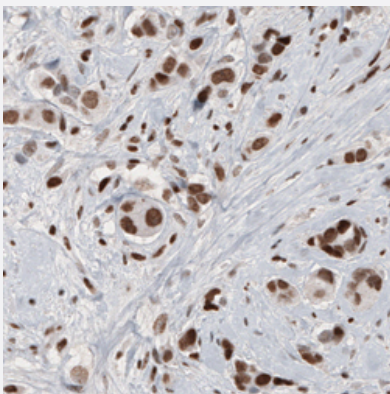
Catalog # MAB15809 Size 100 uL

Applications



Western Blot (Transfected lysate)

Western Blot analysis of Lane 1: negative control (vector only transfected HEK293T cell lysate) and Lane 2: over-expression lysate (co-expressed with a C-terminal myc-DDK tag in mammalian HEK293T cells) with ARID1A monoclonal antibody, clone CL3595 (Cat # MAB15809).



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human breast cancer with ARID1A monoclonal antibody, clone CL3595 (Cat # MAB15809) shows moderate to strong nuclear immunoreactivity in tumor cells.

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human ARID1A.
Immunogen	Recombinant protein corresponding to human ARID1A.
Epitope	This antibody binds to an epitope located within the peptide sequence VAMGPRQHYPYGGPY as determined by overlapping synthetic peptides.
Sequence	PGLGNVAMGPRQHYPYGGPYDRVTEPGIGPEGNMSTGAPQPNLMPSNPDSGMYSRYPQQ QQQQQQRHDSYGNQFSTQGTPSGSPFPSQQTMMYQQQQQNYK
Host	Mouse

Reactivity	Human
Form	Liquid
Purification	Protein A purification
Isotype	IgG1
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:200) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% 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 (Transfected lysate)

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Gene Info — ARID1A

Entrez GeneID	8289
Protein Accession#	O14497
Gene Name	ARID1A
Gene Alias	B120, BAF250, BAF250a, BM029, C1orf4, P270, SMARCF1
Gene Description	AT rich interactive domain 1A (SWI-like)
Omim ID	603024
Gene Ontology	Hyperlink

Gene Summary

This gene encodes a member of the SWI/SNF family, whose members have helicase and ATPase activities and are thought to regulate transcription of certain genes by altering the chromatin structure around those genes. The encoded protein is part of the large ATP-dependent chromatin remodeling complex SNF/SWI, which is required for transcriptional activation of genes normally repressed by chromatin. It possesses at least two conserved domains that could be important for its function. First, it has a DNA-binding domain that can specifically bind an AT-rich DNA sequence known to be recognized by a SNF/SWI complex at the beta-globin locus. Second, the C-terminus of the protein can stimulate glucocorticoid receptor-dependent transcriptional activation. It is thought that the protein encoded by this gene confers specificity to the SNF/SWI complex and may recruit the complex to its targets through either protein-DNA or protein-protein interactions. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations

AT rich interactive domain 1A|AT rich interactive domain 1A (SWI-like)|BRG1-associated factor 250a|OSA1 nuclear protein|OTTHUMP00000004117|OTTHUMP00000044975|SWI/SNF complex protein p270|SWI/SNF related, matrix associated, actin dependent regulator of ch

Publication Reference

- [ARID1A loss in pancreas leads to islet developmental defect and metabolic disturbance.](#)

Tzu-Lei Kuo, Kuang-Hung Cheng, Li-Tzong Chen, Wen-Chun Hung.

iScience 2022 Dec; 26(1):105881.

Application: ChIP, IHC, Human, Mouse, 1.2B4 insulin-secreting hybrid, NIT-1 insulinoma cells, Pancrease