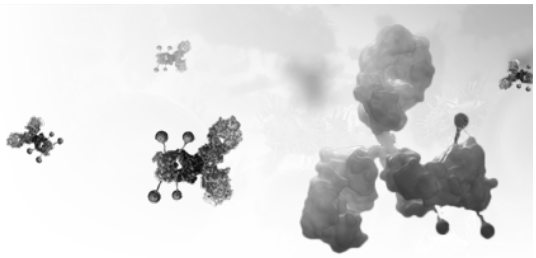

Mouse Anti-Human Carbonic Anhydrase IX (CA IX) monoclonal antibody, clone JID635 (CABT-L2831)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	This antibody is intended for qualified laboratories to qualitatively identify by light microscopy the presence of associated antigens in sections of formalin-fixed, paraffin-embedded tissue sections using IHC test methods.
Specificity	Human Carbonic Anhydrase IX (CA IX)
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	JID635
Conjugate	Unconjugated
Applications	IHC
Reconstitution	The prediluted antibody does not require any mixing, dilution, reconstitution, or titration; the antibody is ready-to-use and optimized for staining. The concentrated antibody requires dilution in the optimized buffer, to the recommended working dilution range.
Positive Control	Clear Cell Renal Cell Carcinoma
Format	Liquid
Size	Predilut: 7 ml, Concentrate: 100 µl, Concentrate: 1 ml

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Buffer	Predilute: Antibody Diluent Buffer Concentrate: Tris Buffer, pH 7.3 - 7.7, with 1% BSA
Preservative	< 0.1% Sodium Azide
Storage	Store at 2-8°C. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	Carbonic Anhydrase IX (CA IX) is a transmembrane protein involved in catalyzing the reversible hydration of carbon dioxide. CA IX is a useful marker for epithelial malignancies of the uterus, cervix, lung, breast, and kidney (including clear cell renal cell carcinoma or RCC). Urothelial carcinomas produce diffuse-to-multifocal staining, while Collecting Duct Carcinoma (CDC) yields extremely weak and focal staining.
Keywords	CA9;carbonic anhydrase IX;carbonic anhydrase 9;CAIX;carbonic dehydratase;MN;RCC associated protein G250;pMW1;CA-IX;P54/58N

GENE INFORMATION

Gene Name	CA9 carbonic anhydrase IX [Homo sapiens (human)]
Official Symbol	CA9
Synonyms	CA9; carbonic anhydrase IX; MN; CAIX; carbonic anhydrase 9; pMW1; CA-IX; P54/58N; membrane antigen MN; carbonic dehydratase; carbonate dehydratase IX; RCC-associated antigen G250; RCC-associated protein G250; renal cell carcinoma-associated antigen G250;
Entrez Gene ID	768
Protein Refseq	NP_001207
UniProt ID	Q16790
Chromosome Location	9p13.3
Pathway	Cellular response to hypoxia; Cellular responses to stress; HIF-1-alpha transcription factor network; Metabolism; Nitrogen metabolism; Regulation of Hypoxia-inducible Factor (HIF) by oxygen; Regulation of gene expression by Hypoxia-inducible Factor; Reversible hydration of carbon dioxide;
Function	carbonate dehydratase activity; zinc ion binding;

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