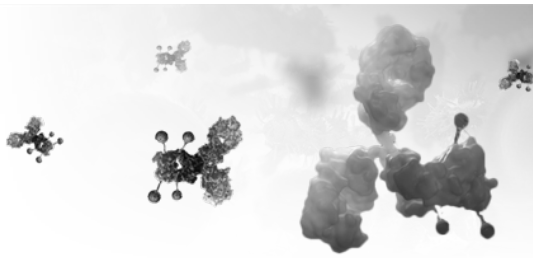

Mouse Anti-Human EZH2 monoclonal antibody, clone JID681 (CABT-L2864)

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 EZH2
Isotype	IgG
Source/Host	Mouse
Species Reactivity	Human
Clone	JID681
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	Prostate Adenocarcinoma, Tonsil, Breast Carcinoma
Format	Liquid
Size	Predilut: 7 ml, Concentrate: 100 µl, Concentrate: 1 ml
Buffer	Predilute: Antibody Diluent Buffer

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	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	Enhancer of Zeste Homolog 2 (EZH2) is a methylase of histone H3 that silences gene expression in those regions. EZH2 is overexpressed or mutated in gastric, prostate, uterine, breast, and renal cell cancers, as well as in melanoma and most B- and T-lymphocyte lymphomas. Although EZH2 is usually present in follicular centers, it is not expressed in the mantle zones, plasma cells, follicular or interfollicular T-lymphocytes, natural killer T-lymphocytes, plasmacytoma, lymphoplasmacytic lymphoma, or MALT lymphoma. EZH2 is rarely present in normal breast duct epithelium and in normal and hyperplastic lymph node. Anti-EZH2 is also useful for detecting lymphoma and non-small cell lung cancers. EZH2 is associated with tumor proliferation and can be used in staining panels to distinguish aggressive lymphomas from less aggressive lymphomas or normal cells.
Keywords	EZH2;enhancer of zeste homolog 2 (Drosophila);WVS;ENX1;EZH1;KMT6;WVS2;ENX-1;EZH2b;KMT6A;histone-lysine N-methyltransferase EZH2;lysine N-methyltransferase 6;

GENE INFORMATION

Gene Name	EZH2 enhancer of zeste 2 polycomb repressive complex 2 subunit [Homo sapiens (human)]
Official Symbol	EZH2
Synonyms	EZH2; enhancer of zeste 2 polycomb repressive complex 2 subunit; WVS; ENX1; EZH1; KMT6; WVS2; ENX-1; EZH2b; KMT6A; histone-lysine N-methyltransferase EZH2; enhancer of zeste homolog 2; lysine N-methyltransferase 6;
Entrez Gene ID	2146
Protein Refseq	NP_001190176
UniProt ID	Q15910
Chromosome Location	7q35-q36
Pathway	Cellular Senescence; Cellular responses to stress; Epigenetic regulation of gene expression; Gene Expression; Integrated Pancreatic Cancer Pathway; MicroRNAs in cancer; Oxidative Stress Induced Senescence; PRC2 methylates histones and DNA;

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Function	DNA binding; RNA binding; chromatin DNA binding; chromatin binding; core promoter binding; histone methyltransferase activity; histone methyltransferase activity (H3-K27 specific); histone-lysine N-methyltransferase activity; protein binding; protein-lysine N-methyltransferase activity; sequence-specific DNA binding;

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