Technical Data Sheet

Purified Mouse Anti-EZH2

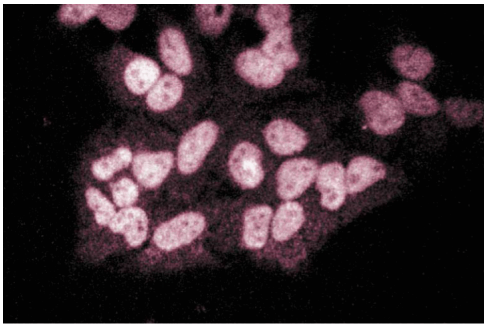
Product Information

Material Number:	**612667**
Size:	150 µg
Concentration:	250 µg/ml
Clone:	11/EZH2
Immunogen:	Human EZH2 recombinant protein aa. 156-256
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Dog, Rat, Mouse, Chicken
Target MW:	91 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

The 11/EZH2 monoclonal antibody specifically binds to the methyltransferase, EZH2 (Enhancer of Zeste Homolog 2). *EZH2* is a human homologue of Drosophila's *Enhancer of zeste* gene, an important regulator of homeobox gene expression. The EZH2 protein has a predicted molecular weight of ~85 kDa. EZH2 is a member of the Polycomb group (PcG) of proteins that are essential for the maintenance, but not initiation, of the transcriptionally repressed state of certain developmental genes. PcG proteins are a structurally diverse group of proteins with conserved functions from fly to human cells. PcG family proteins form multimeric complexes that regulate the expression of genes involved in cell cycle, DNA repair and differentiation. Specifically, EZH2 is a core enzymatic component of PRC2 (polycomb repressive complex 2). EZH2 is expressed in some lymph node follicular T cells and B cells. Thymocytes differentially express EZH2 at various stages during T-cell maturation. EZH2 interacts with multiple signaling proteins, including Vav, that are involved in lymphocyte development and activation. It is highly expressed in a variety of tumors including lymphomas as well as breast and prostate cancers. EZH2 is important in the self renewal and proliferation of numerous stem cell types including fetal hematopoietic stem cells, muscle satellite cells, hepatic stem/progenitor cells, neural stem cells, basal cell progenitors in the developing epidermis, embryonic stem cells, and some cancer stem cells.

Western blot analysis of EZH2 on Jurkat cell lysate. *Lane 1:1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of anti-EZH2.*



Immunofluorescent staining of Hela cells.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at -20°C.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development

Suggested Companion Products

Catalog Number	Name	Size	Clone

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611451	Jurkat Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Raaphorst FM, Otte AP, van Kemenade FJ. Distinct BMI-1 and EZH2 expression patterns in thymocytes and mature T cells suggest a role for Polycomb genes in human T cell differentiation. *J Immunol.* 2001; 166(10):5925-5934. (Biology)

van Kemenade FJ, Raaphorst FM, Blokzijl T. Coexpression of BMI-1 and EZH2 polycomb-group proteins is associated with cycling cells and degree of malignancy in B-cell non-Hodgkin lymphoma. 2001; 97(12):3896-3901. (Biology)

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