

## Product datasheet for **TA397453S**

### **EZH1 Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	ELISA, WB
<b>Recommended Dilution:</b>	<b>WB:</b> 1.0 ug/ml <b>ELISA:</b> 1:50,000
<b>Reactivity:</b>	Human, Mouse
<b>Host:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	Affinity purified Anti-EZH1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide near the internal portion of human EZH1 protein.
<b>Specificity:</b>	Anti-EZH1 is directed against human EZH1 at an internal position. This product is an affinity purified antibody produced by immunoaffinity chromatography using peptide coupled to agarose beads. A BLAST analysis was used to suggest reactivity with this protein in mouse, bovine, and orangutan species based on 100% homology for the immunogen sequence.
<b>Formulation:</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Concentration:</b>	1.0 mg/ml - lot specific
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
<b>Stability:</b>	Expiration date is one (1) year from date of receipt.
<b>Gene Name:</b>	enhancer of zeste 1 polycomb repressive complex 2 subunit
<b>Database Link:</b>	<a href="#">Entrez Gene 2145 Human Q92800</a>



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**Background:**

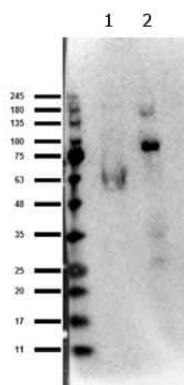
Anti-Ezh1 Antibody was designed, produced, and validated as part of the Joy Cappel Young Investigator Award (JCYIA). Anti-EZH1 Antibody detects human EZH1. Polycomb group (PcG) proteins are essential epigenetic regulators in normal tissue homeostasis and are involved in transcriptional repression. The PcG members Ezh2 and Ezh1 are important determinants of embryonic stem cell identity, and the transcript levels of these histone methyltransferases are inversely correlated during development. Recent studies have shown that EZH1 also has histone H3K27 methyltransferase activity and binds to an overlapping subset of genes. EZH1 and EZH2 have different expression patterns. EZH2 is found in actively proliferating cells, whereas EZH1 expression is higher in nonproliferative adult tissues. EZH1 partially compensates for the loss of EZH2, as shown in cells lacking only Ezh2. In mice, EZH1 is a regulator of homeotic gene expression implicated in the assembly of repressive protein complexes in chromatin. Anti-EZH1 Antibody is ideal for investigators studying pathogenesis of hematological malignancies.

**Synonyms:**

rabbit anti-EZH1 antibody, KIAA0388, Histone-lysine N-methyltransferase EZH1, ENX-2, Enhancer of zeste homolog 1, EZH-1, EZH 1

**Note:**

This affinity purified antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band ~86 kDa in size corresponding to Ezh1 by western blotting in the appropriate cell lysate or extract. Tested using positive control NIH/3T3 nuclear extract p/n W10-001-A74.

**Product images:**

Western Blot of Rabbit anti-Ezh1 antibody. Marker: Opal Pre-stained ladder (p/n MB-210-0500). Lane 1: NIH/3T3 WCL (p/n W10-000-358). Lane 2: NIH/3T3 nuclear extract (p/n W10-001-A74). Load: 10 µg per lane. Primary antibody: Ezh1 antibody at 1:1,000 for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody (p/n 611-103-122) at 1:70,000 for 60 min at RT. Blocking Buffer: (p/n MB-070) for 30 min at RT. Predicted/Observed size: 86 kDa for Ezh1 in lane 2 NIH/3T3 nuclear extract (p/n W10-001-A74).