



Jumonji Domain-Containing Protein 2C (Lysine-Specific Demethylase 4C, JMJD2C, JMJD2, Gene Amplified in Squamous Cell Carcinoma 1, GASC1, JmjC Domain-Containing Histone Demethylation Protein 3C, JHDM3C, KDM4C)

Catalog number

J7876-47

Supplier

United States Biological

Jumonji Domain Containing 2C is a member of the Jumonji domain 2 (JMJD2) family and encodes a protein with one JmjC domain, one JmjN domain, two PHD-type zinc fingers, and two Tudor domains. This nuclear protein functions as a trimethylation-specific demethylase, converting specific trimethylated histone residues to the dimethylated form. Chromosomal aberrations and increased transcriptional expression of this gene are associated with esophageal squamous cell carcinoma.

Applications

Suitable for use in Western Blot, Chromatin Immunoprecipitation and Immunoprecipitation. Other applications not tested.

Recommended Dilutions

Western Blot: 1:2000-1:10,000

Immunoprecipitation: 1:2-5ug/mg lysate

Chromatin Immunoprecipitation: 1:10-1:500

Optimal dilutions to be determined by the researcher.

Positive Control

HeLa whole cell extract

Storage and Stability

May be stored at 4°C. For long-term storage, aliquot and store at 4°C. Do not freeze. Aliquots are stable for 12 months after receipt. For maximum recovery of product, centrifuge the original vial prior to removing the cap. Further dilutions can be made in assay buffer.

Formulation

Supplied as a liquid in Tris-citrate/phosphate buffer, pH 7.5, 0.09% sodium azide.

Purity

Purified by immunoaffinity chromatography.

Specificity

Recognizes human Jumonji Domain Containing 2C protein. The epitope recognized maps to a region between aa475-525 of human Jumonji Domain Containing 2C protein (NP_055876.2).

Product Type



Pab

Source

human

Isotype

IgG

Grade

Affinity Purified

Applications

ChIP IP WB

Crossreactivity

Hu

Storage

4°C Do not freeze

Reference

1. Liu, G., et al., Oncogene 28(50): 4491-4500 (2009).