

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Jumonji/JARID2 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human JARID2B is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Jumonji/JARID2 Met1-Thr159 Accession # Q92833
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Jumonji [Japanese for "cruciform/cross" also JARID2 (Jumonji/ARID domain-containing protein 2) and JMJ] is a 140-155 kDa member of the JMJ family of proteins. It is a nuclear complex coordinator that interacts with the G9a and GLP methyltransferases to repress gene transcription. Jumonji is expressed in mammalian embryonic neurons, megakaryocytes, hepatocytes and cardiomyocytes. Human Jumonji is 1246 amino acids (aa) in length. It contains an NLS (aa 1-131), a transcriptional repressor domain (aa 132-222), a DNA binding region (aa 558-709) and a nonfunctional histone demethylase domain (aa 916-1042). There are potential splice variants. One shows an alternative start site at Met173, another shows a deletion of aa 304-1151, and a third contains a 22 aa substitution for aa 1-60, coupled to a 50 aa substitution for aa 949-1246. Over aa 1-159, human Jumonji shares 96% aa identity with mouse Jumonji.

PRODUCT SPECIFIC NOTICES

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