

#### DESCRIPTION

|                                                                                                                                                                                                         |                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                         |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human Jumonji/JARID2 in direct ELISAs.                                                |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>2B</sub> Clone # 674702                                             |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                                    |
| <b>Immunogen</b>                                                                                                                                                                                        | <i>E. coli</i> -derived recombinant human Jumonji/JARID2<br>Met1-Thr159<br>Accession # Q92833 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 532<br>Excitation Wavelength: 534 nm<br>Emission Wavelength: 553 nm               |
| <b>Formulation</b>                                                                                                                                                                                      | 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.

**Immunocytochemistry** Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

JARID2 (Jumonji/ARID domain-containing protein 2; also Jumonji [Japanese for "cruciform/cross"] and JMJ) is a 150-160 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. JARID2 is expressed in mammalian embryonic neurons, megakaryocytes, hepatocytes and cardiomyocytes. Human JARID2 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 JARID2 shares 96% aa identity with mouse JARID2.

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