

## DESCRIPTION

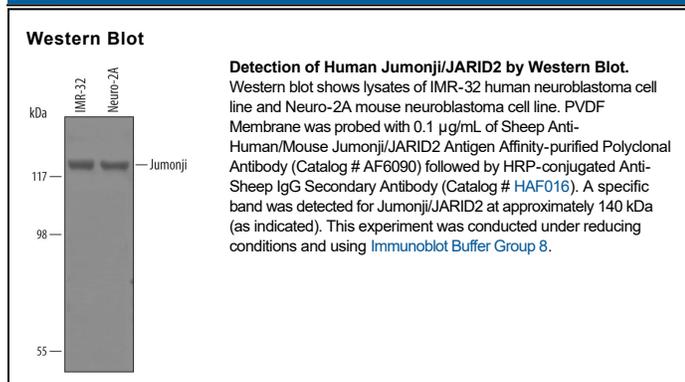
<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects human and mouse Jumonji/JARID2 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human JARID2B is observed.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Jumonji/JARID2 Met1-Thr159 Accession # Q92833
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

## 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.

	Recommended Concentration	Sample
<b>Western Blot</b>	0.1 µg/mL	See Below

## DATA



## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.