Human Jumonji/JARID2 Alexa Fluor® 350-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 674702

Catalog Number: FAB6090U

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Jumonji/JARID2 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 674702
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Jumonji/JARID2 Met1-Thr159 Accession # Q92833
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 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.*

Immunocytochemistry	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

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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