Human PIWIL4 Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 626001

Catalog Number: FAB6316G

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human PIWIL4 in direct ELISAs. In this format, no cross-reactivity with recombinant human (rh) PIWIL2 is observed.
Source	Monoclonal Mouse IgG_{2A} Clone # 626001
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human PIWIL4 Ser102-Gln237 Accession # Q7Z3Z4
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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

PIWI-like protein 4 (PIWIL4) is a 97 kDa member of the argonaute family of proteins and the PIWI subfamily. Human PIWIL4 is 852 amino acids (aa) in length and contains one PAZ domain (aa 268-384) and one PIWI domain (aa 546-838). There are three isoforms for human PIWIL4. Isoform 1 is the standard protein. Isoform 2 has a two aa substitution for aa 1-29 in isoform 1 and a deletion of aa 523-852. Isoform 3 has a deletion of aa 1-69 and a deletion of aa 523-852. Human PIWIL4 shares 77% aa sequence identity with mouse and rat PIWIL4. PIWIL4 plays a central role in spermatogenesis.

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