Human POT1 Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 688923

Catalog Number: FAB5299S

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human POT1 in direct ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 688923
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human POT1 Met159-Pro316 Accession # Q9NUX5
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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

POT1 (Protection of telomeres protein 1; also POTE1) is a nuclear, 71 kDa member of the telombin family of proteins. It is ubiquitously expressed, and binds single stranded DNA, TRF2, and TPP1 at the end of chromosomes. This stabilizes chromosome ends and protects against unwarranted activation of DNA damage programs. Human POT1 is 634 amino acids (aa) in length. It contains two N-terminal DNA binding OB regions (aa 1-300) and a C-terminal TPP-1 dimerization domain (aa 301-634). There are multiple isoform variants. There is a potential alternate start site at Met132, plus a three aa substitution for aa 43-634, a 24 aa substitution for aa 317-634, a three aa substitution for aa 457-634, and a 16 aa substitution for aa 503-634. Over aa 159-316, human POT1 shares 71% aa identity with mouse POT1.

PRODUCT SPECIFIC NOTICES

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