Datasheet for ABIN7601802

anti-POLE2 antibody (AA 46-483)

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Overview

Quantity:	100 µg
Target:	POLE2
Binding Specificity:	AA 46-483
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This POLE2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	Anti-POLE2 Antibody Picoband®
Immunogen:	E.coli-derived human POLE2 recombinant protein (Position: E46-K483). Human POLE2 shares 99.1% amino acid (aa) sequence identity with mouse POLE2.
Characteristics:	Anti-POLE2 Antibody Picoband® (ABIN7601802). Tested in WB, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	POLE2
Alternative Name:	POLE2 (POLE2 Products)
Background:	DNA polymerase epsilon subunit 2 is an enzyme that in humans is encoded by the POLE2 gene. DNA polymerase epsilon, which is involved in DNA repair and replication, is composed of a large catalytic subunit and a small accessory subunit. The protein encoded by this gene represents the small subunit (B). Defects in this gene have been linked to colorectal cancer and to combined immunodeficiency.
Gene ID:	5427
UniProt:	P56282
Pathways:	Telomere Maintenance, DNA Damage Repair, Mitotic G1-G1/S Phases, DNA Replication, Synthesis of DNA

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Frugoni, F., Dobbs, K., Felgentreff, K., Aldhekri, H., Al Saud, B. K., Arnaout, R., Ali, A. A., Abhyankar, A., Alroqi, F., Giliani, S., Ojeda, M. M., Tsitsikov, E., Pai, S.-Y., Casanova, J. L., Notarangelo, L. D., Manis, J. P. A novel mutation in the POLE2 gene causing combined immunodeficiency. J. Allergy Clin. Immun. 137: 635-638, 2016. 2. Li, Y., Asahara, H., Patel, V. S., Zhou, S., Linn, S. Purification, cDNA cloning, and gene mapping of the small subunit of human DNA polymerase epsilon. J. Biol. Chem. 272: 32337-32344, 1997. 3. Stumpf, A. M. Personal Communication. Baltimore, Md. 03/26/2021.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C

Handling

Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.