Datasheet for ABIN7601583

anti-SMG9 antibody (AA 39-520)

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Overview

Quantity:	100 µg
Target:	SMG9
Binding Specificity:	AA 39-520
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMG9 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-C19orf61/SMG9 Antibody Picoband®
Immunogen:	E.coli-derived human C19orf61/SMG9 recombinant protein (Position: R39-A520).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-C19orf61/SMG9 Antibody Picoband® (ABIN7601583). Tested in ELISA, Flow Cytometry, IF, ICC, WB 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:	SMG9
Alternative Name:	SMG9 (SMG9 Products)
Background:	Synonyms: Protein NDRG3,N-myc downstream-regulated gene 3 protein,NDRG3, Tissue Specificity: Ubiquitous. Highly expressed in brain. . Background: This gene encodes a regulatory subunit of the SMG1 complex, which plays a critical role in nonsense-mediated mRNA decay (NMD). Binding of the encoded protein to the SMG1 complex kinase scaffold protein results in the inhibition of its kinase activity. Mutations in this gene cause a multiple congenital anomaly syndrome in human patients, characterized by brain malformation, congenital heart disease and other features.
Molecular Weight:	58 kDa
Gene ID:	56006
UniProt:	Q9H0W8

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Lecoquierre, F., Bonnevalle, A., Chadie, A., Gayet, C., Dumant-Forest, C., Renaux-Petel, M., Leca, J. B., Hazelzet, T., Brasseur-Daudruy, M., Louillet, F., Muraine, M., Coutant, S., Quenez, O., Boland, A., Deleuze, J. F., Frebourg, T., Goldenberg, A., Saugier-Veber, P., Guerrot, A. M., Nicolas, G. Confirmation and further delineation of the SMG9-deficiency syndrome, a rare and severe developmental disorder. Am. J. Med. Genet. 179A: 2257-2262, 2019. 2. Rahikkala, E., Urpa, L., Ghimire, B., Topa, H., Kurki, M. I., Koskela, M., Airavaara, M., Hamalainen, E., Pylkas, K., Korkko, J., Savolainen, H., Suoranta, A., Bertoli-Avella, A., Rolfs, A., Mattila, P., Daly, M., Palotie, A., Pietilainen, O., Moilanen, J., Kuismin, O. A novel variant in SMG9 causes intellectual disability, confirming a role for nonsense-mediated decay components in neurocognitive development. Europ. J. Hum. Genet. 30: 619-627, 2022. 3. Shaheen, R., Anazi, S., Ben-Omran, T., Seidahmed, M. Z., Caddle, L. B., Palmer, K., Ali, R., Alshidi, T., Hagos, S., Goodwin, L., Hashem, M., Wakil, S. M., Abouelhoda, M., Colak, D., Murray, S. A., Alkuraya, F. S. Mutations in SMG9, encoding an essential component of nonsense-mediated decay machinery, cause a multiple congenital anomaly syndrome in humans and mice. Am. J. Hum. Genet. 98: 643-652, 2016.
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
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.