

Datasheet for ABIN7600047
anti-LACTB antibody (AA 141-543)



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Overview

Quantity:	100 µg
Target:	LACTB
Binding Specificity:	AA 141-543
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This LACTB antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-LACTB Antibody Picoband®
Immunogen:	E.coli-derived human LACTB recombinant protein (Position: E141-K543).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-LACTB Antibody Picoband® (ABIN7600047). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human. 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:	LACTB
Alternative Name:	LACTB (LACTB Products)
Background:	Synonyms: Follicular dendritic cell secreted peptide,FDC secreted protein,FDC-SP,FDCSP,C4orf7,UNQ733/PRO1419, Tissue Specificity: Abundantly expressed in tonsil, lymph node, and trachea, strong expression in prostate, lower expression in thyroid, stomach, and colon. . Background: Serine beta-lactamase-like protein LACTB, mitochondrial is an enzyme that in humans is encoded by the LACTB gene. This gene encodes a mitochondrially-localized protein that has sequence similarity to prokaryotic beta-lactamases. Many of the residues responsible for beta-lactamase activity are not conserved in this protein, suggesting it may have a different enzymatic function. Increased expression of the related mouse gene was found to be associated with obesity. Alternative splicing results in multiple transcript variants encoding different protein isoforms.
Molecular Weight:	54 kDa
Gene ID:	114294
UniProt:	P83111

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1×10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Chen, Y., Zhu, J., Lum, P. Y., Yang, X., Pinto, S., MacNeil, D. J., Zhang, C., Lamb, J., Edwards, S., Sieberts, S. K., Leonardson, A., Castellini, L. W., and 10 others. Variations in DNA elucidate molecular networks that cause disease. <i>Nature</i> 452: 429-435, 2008. 2. Hell-Pourmojib, M., Neuner, P., Fischer, H., Rezaie, S., Kindas-Mugge, I., Knobler, R., Trautinger, F. Differential expression of a novel gene in response to hsp27 and cell differentiation in human keratinocytes. <i>J. Invest. Derm.</i> 119: 154-159, 2002. 3. Keckesova, Z., Donaher, J. L., De Cock, J., Freinkman, E., Lingrell, S., Bachovchin, D. A., Bieri, B., Tischler, V., Noske, A., Okondo, M. C., Reinhardt, F., Thiru, P., Golub, T. R., Vance, J. E., Weinberg, R. A. LACTB is a tumour suppressor that modulates lipid metabolism and cell state. <i>Nature</i> 543: 681-686, 2017.
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 Na ₂ HPO ₄ .
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.