Datasheet for ABIN7603026

anti-BRD4 antibody (Middle Region)

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Overview

Quantity:	100 µg
Target:	BRD4
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BRD4 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-BRD4 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human BRD4, which shares 95% amino acid (aa) sequence identity with mouse BRD4.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-BRD4 Antibody Picoband® (ABIN7603026). Tested in 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.

Product Details

Purification:	Immunogen affinity purified.

Target Details

Target:	BRD4
Alternative Name:	BRD4 (BRD4 Products)
Background:	Synonyms: Fibroblast growth factor 2, FGF-2, Basic fibroblast growth factor, bFGF, Heparin-binding growth factor 2, HBGF-2, FGF2, FGFB Tissue Specificity: Expressed in granulosa and cumulus cells. Expressed in hepatocellular carcinoma cells, but not in non- cancerous liver tissue. Background: Bromodomain-containing protein 4 is a protein that in humans is encoded by the BRD4 gene. The protein encoded by this gene is homologous to the murine protein MCAP, which associates with chromosomes during mitosis, and to the human RING3 protein, a serine/threonine kinase. Each of these proteins contains two bromodomains, a conserved sequence motif which may be involved in chromatin targeting. This gene has been implicated as the chromosome 19 target of translocation t(15,19)(q13,p13.1), which defines an upper respiratory tract carcinoma in young people. Two alternatively spliced transcript variants have been described.
Molecular Weight:	220 kDa
Gene ID:	23476
UniProt:	O60885
Pathways:	Chromatin Binding, SARS-CoV-2 Protein Interactome

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, Rat 1. Choe, J., Lin, S., Zhang, W., Liu, Q., Wang, L., Ramirez-Moya, J., Du, P., Kim, W., Tang, S., Sliz, P., Santisteban, P., George, R. E., Richards, W. G., Wong, K.-K., Locker, N., Slack, F. J., Gregory, R. I. mRNA circularization by METTL3-eIF3h enhances translation and promotes oncogenesis. Nature 561: 556-560, 2018. 2. Crawford, N. P. S., Alsarraj, J., Lukes, L., Walker, R. C., Officewala, J. S., Yang, H. H., Lee, M. P., Ozato, K., Hunter, K. W. Bromodomain 4 activation predicts breast cancer survival. Proc. Nat. Acad. Sci. 105: 6380-6385, 2008. 3. Dawson, M. A., Prinjha, R. K., Dittmann, A., Giotopoulos, G., Bantscheff, M., Chan, W.-I., Robson, S. C., Chung, C., Hopf, C.,

Application Details

	Savitski, M. M., Huthmacher, C., Gudgin, E., and 15 others. Inhibition of BET recruitment to chromatin as an effective treatment for MLL-fusion leukaemia. Nature 478: 529-533, 2011.
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.