Product datasheet

anti-Perilipin 3 (C-terminus) guinea pig polyclonal, serum

Short overview

Cat. No.	GP32
Quantity	100 µl

Product description

Host	Guinea pig
Antibody Type	Polyclonal
Immunogen	Synthetic peptide of TIP47 C-terminus (hCTA/B; aa 420 - 431); C-terminal epitope
Formulation	Contains 0.09% sodium azide and 0.5% BSA
UniprotID	O60664 (Human)
Synomym	Perilipin-3, 47 kDa mannose 6-phosphate receptor-binding protein, 47 kDa MPR-binding protein, Cargo selection protein TIP47, Mannose-6-phosphate receptor-binding protein 1, Placental protein 17, PP17, PLIN3, M6PRBP1, TIP47
Note	Centrifuge prior to opening
Conjugate	Unconjugated
Purification	Stabilized antiserum
Storage	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
Intended use	Research use only
Application	IHC, WB
Reactivity	Human

Applications

Immunohistochemistry (IHC) - frozen	1:100-1:200
Immunohistochemistry (IHC) - paraffin	1:100-1:200 (microwave treatment recommended)
Western Blot (WB)	1:1,000

Background

TIP47 (tail-interacting protein of 47 kD; also named PLIN3) is involved in lipid droplet maturation (Bulankina et al. 2009). The protein has been localized in milk fat globule membranes of human and bovine origin. It has been described also as a placental protein. Increased amounts of TIP47 are secreted into circulation of cervix carcinoma patients. After radical surgery TIP47 serum levels are decreased (Than et al. 1999).

TIP47 shows about 40% sequence homology to adipophilin (PLIN2). The GP32 antiserum, however, is specific for TIP47 (PLIN3) and does not cross-react with adipophilin (PLIN2) and perilipin (PLIN1) or other closely related members of the PLIN/PAT-family.

Bulankina, A. V et al. TIP47 functions in the biogenesis of lipid droplets. J. Cell Biol. 185, 641-55 (2009). Than, N. G., Sumegi, B., Than, G. N., Kispal,

G. & Bohn, H. Cloning and sequencing of human oncodevelopmental soluble placental tissue protein 17 (PP17): homology with adipophilin and the mouse adipose differentiation-related protein. Tumour Biol. J. Int. Soc. Oncodevelopmental Biol. Med. 20, 184-92 (1999).

Product images



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References

Publication	Species	Application
Heid, H. et al. On the formation of lipid droplets in human adipocytes: the organization of the perilipin-vimentin cortex. PLoS One 9, e90386 (2014).	human	WB,ICC-IF
Heid, H. et al. Lipid droplets, perilipins and cytokeratins--unravelled liaisons in epithelium-derived cells. PLoS One 8, (2013).	human	WB,ICC-IF
Straub, B. K., Stoeffel, P., Heid, H., Zimbelmann, R. & Schirmacher, P. Differential pattern of lipid droplet-associated proteins and de novo perilipin expression in hepatocyte steatogenesis. Hepatology 47, 1936-1946 (2008).	human	WB,IHC