

Product datasheet

anti-Retinol Binding Protein mouse monoclonal, G4E4, purified

Short overview

Cat. No.	691687
Quantity	1 ml (100 µg/ml)
Concentration	100 µg/ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1 kappa
Clone	G4E4
Immunogen	With human retinol binding protein purified from plasma
Formulation	PBS with 0.02% sodium azide
Conjugate	Unconjugated
Purification	Affinity chromatography
Storage	2-8°C
Intended use	Research use only
Application	ELISA, IHC, WB
Reactivity	Goat, Monkey, Mouse, Rabbit, Rat

Applications

ELISA	Assay dependent
Immunohistochemistry (IHC) - frozen	1:25-1:50 (2-4 µg/ml)
Immunohistochemistry (IHC) - paraffin	1:25-1:50 (2-4 µg/ml; microwave treatment in 10 mM citrate buffer pH 6.0 recommended)
Western Blot (WB)	1:100-1:200 (0.5-1 µg/ml)

Background

G4E4 recognizes an epitope within the 74-182 C-terminal sequence (11kDa peptide fragment) of human serum Cellular Retinol Binding Protein 1 (CRBP 1), a single-chain glycoprotein belonging to the superfamily of hydrophobic molecule transporter proteins, which is responsible for transport of retinol (vitamin A1) from the liver to peripheral target tissues, like the eye, where it mediates the cellular uptake. CRBP 1 is synthesized by hepatic parenchymal cells where it becomes bound to its ligand retinol and is then released into the circulation, where it binds further to the protein transthyretin, to form a transporting complex, which is big enough not to be lost by filtration through the kidney glomeruli. It is detected in nearly all tissues with higher expression in adult ovary, pancreas, pituitary gland, adrenal gland, and fetal liver.

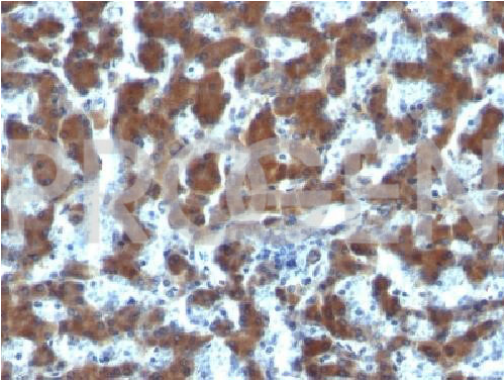
Positive control: liver.

Product images

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Human hepatocellular carcinoma