

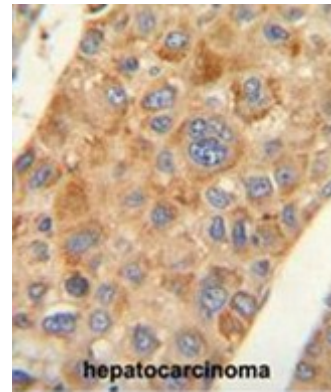
AP50158PU-N**Polyclonal Antibody to AMACR / RACE (C-term) - Aff - Purified**

Alternate names:	2-methylacyl-CoA racemase, Alpha-methylacyl-CoA racemase, P504S
Quantity:	0.4 ml
Concentration:	lot specific
Background:	This gene encodes a racemase. The encoded enzyme interconverts pristanoyl-CoA and C27-bile acylCoAs between their (R)- and (S)-stereoisomers. The conversion to the (S)-stereoisomers is necessary for degradation of these substrates by peroxisomal beta-oxidation. Encoded proteins from this locus localize to both mitochondria and peroxisomes. Mutations in this gene may be associated with adult-onset sensorimotor neuropathy, pigmentary retinopathy, and adrenomyeloneuropathy due to defects in bile acid synthesis. Alternatively spliced transcript variants have been described.
Uniprot ID:	Q9UHK6
NCBI:	NP_055139
GeneID:	23600
Host / Isotype:	Rabbit / Ig
Immunogen:	KLH conjugated synthetic peptide between 330-359 amino acids from the C-terminal region of human AMACR
Format:	State: Liquid purified Ig fraction Purification: Affinity chromatography on Protein A Buffer System: PBS with 0.09% (W/V) sodium azide as preservative
Applications:	ELISA: 1/1000. Western blotting: 1/100 - 1/500. Immunohistochemistry: 1/50 - 1/100. Flow Cytometry: 1/10 - 1/50. Immunofluorescence: 1/10 - 1/50. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody reacts to AMACR.
Species Reactivity:	Tested: Human.
Add. Information:	Molecular Weight: 42387 Da
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Murray, N.P., et al. <i>Oncol. Rep.</i> 24(3):687-692(2010) 2. Sonwalkar, S.A., et al. <i>Histopathology</i> 56(7):900-907(2010) 3. Lakis, S., et al. <i>World J. Gastroenterol.</i> 16(20):2476-2483(2010) 4. Chen, W., et al. <i>Mol. Biol. Rep.</i> 36(3):423-430(2009)

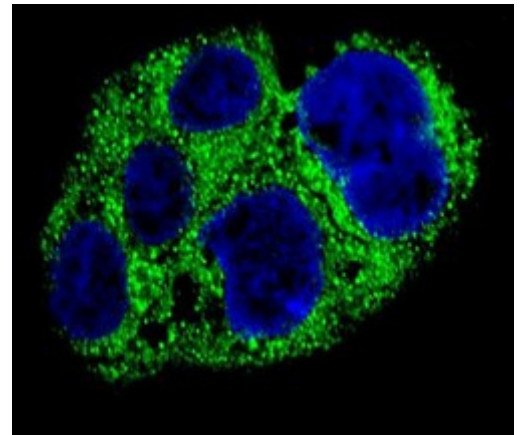
Pictures:

5. Mubiru, J.N., et al. Gene 327(1):89-98(2004)

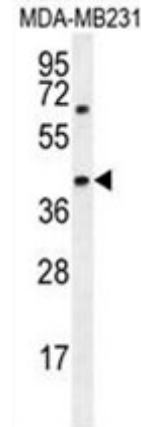
AMACR antibody (C-term) (Cat. #AP50158PU-N) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the AMACR antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Confocal immunofluorescent analysis of AMACR Antibody (C-term)(Cat. #AP50158PU-N) with HepG2 cell followed by Alexa Fluor® 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



AMACR Antibody (C-term) (Cat. #AP50158PU-N) western blot analysis in MDA-MB231 cell line lysates (35µg/lane). This demonstrates the AMACR antibody detected the AMACR protein (arrow).



AMACR Antibody (C-term) (Cat. #AP50158PU-N) flow cytometric analysis of MDA-MB231 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

