AMACR Monoclonal Mouse Antibody (AMACR/1864)



Product Description

This antibody recognizes a protein of 42 kDa, which is identified as Alpha-methylacyl-CoA Racemase (AMACR), also known as p504S. It is an enzyme that is involved in bile acid biosynthesis and -oxidation of branched-chain fatty acids. AMACR is essential in lipid metabolism. It is expressed in cells of premalignant high-grade prostatic intraepithelial neoplasia (HGPIN) and prostate adenocarcinoma. The majority of the carcinoma cells show a distinct granular cytoplasmic staining reaction. AMACR is present at low or undefectable levels in glandular epithelial cells of normal prostate and benign prostatic hyperplasia. A spotty granular cytoplasmic staining is seen in a few cells of the benign glands. AMACR is expressed in normal liver (hepatocytes), kidney (tubular epithelial cells) and gall bladder (epithelial cells). Expression has also been found in lung (bronchial epithelial cells) and colon (colonic surface epithelium). AMACR expression can also be found in hepatocellular carcinoma and kidney carcinoma. Past studies have also shown that AMACR is expressed in various colon carcinomas (well, moderately and poorly differentiated) and over expressed in prostate carcinoma. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the CF® Dye Brochure for more information. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors. **Stock status:** Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order. Catalog number key for antibody number 1864, AMACR / p504S Monoclonal Mouse Antibody

Product attributes

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Product attributes				
research-areas	Cancer, Endocrinology, Metabolism			
Antibody number	#1864			
Antibody reactivity	AMACR			
Antibody type	Primary			
Host species	Mouse			
Clonality	Monoclonal			
Clone	AMACR/1864			
Isotype	IgG1, kappa			
Molecular weight	42 kDa			
Synonyms	Alpha-methylacyl-CoA Racemase; AMACR; p504S; CBAS4; RACE			
Human gene symbol	AMACR			
Entrez gene ID	23600			
SwissProt	Q9UHK6			
Unigene	508343			
Immunogen	Recombinant human AMACR protein fragment (around aa 297-394) (exact sequence is proprietary)			
Antibody target cellular localization	Plasma membrane, Vesicular			
Verified antibody	IHC (FFPE) (verified), WB (verified)			
Species reactivity	Human			
Positive control	HEK cells. Prostate Adenocarcinoma.			
Shipping condition	Room temperature			
Storage Conditions	Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C			
Regulatory status	For research use only (RUO)			
Antibody/conjugate formulation	Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purfiled: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide, Purfiled, BSA-free: 1 mg/mL in PBS without azide			
Validated in protein	Monospecific			
array Shelf life	Guaranteed for at least 24 months from date of receipt when stored as recommended			
Antibody research areas	Cancer, Endocrinology, Metabolism			
Tumor expression	Prostate cancer			

Antibody # prefix BNC04	Conjugation CF®405S	Ex/Em (nm) 404/431	Laser line 405	Detection channel DAPI (microscopy), AF405	Dye Features CF®405S Features
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified, BSA-free	N/A	N/A	N/A	

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