ASCT2 (D7C12) Rabbit mAb



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Applications: W, IP, IHC-P, IF-IC, FC-FP	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 49, 75	Source/Isotype: Rabbit	UniProt ID: #Q15758	Entrez-Gene Id: 6510
Product Usage Information		Application			Dilution	
		Western Blotting			1:10	
		Immunoprecipitation			1:50	
		Immunohistochemis	•	tata A		0 - 1:800
		Immunofluorescence	` ,	iistry)		0 - 1:1600
		Flow Cytometry (Fixe	d/Permeabilized)		1:20	0 - 1:800
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
		For a carrier free (BSA and azide free) version of this product see product #69974.				
Specificity/Sensitivity		ASCT2 (D7C12) Rabbit mAb recognizes endogenous levels of total ASCT2 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human ASCT2 protein.				
Background		Sodium-dependent neutral amino acid transporter type 2 (ASCT2 or SLC1A5) is a neutral amino acid transporter that regulates the uptake of essential amino acids in conjunction with the SLC7A5 bilateral transporter (1,2). ASCT2 appears to be the major glutamine transporter in hepatoma cells and is thought to provide essential amino acids needed for tumor growth (3). Additional evidence suggests that ASCT2 plays a role in activating mTORC1 signaling and is required to suppress autophagy (4,5). Cell surface ASCT2 serves as a receptor for several mammalian interference retroviruses associated with cases of infectious immunodeficiency; variation in a small region of an extracellular loop (ECL2) may be responsible for species-specific differences in receptor function (6).				
Background Re	eferences	 Utsunomiya-Tate, N. et al. (1996) J Biol Chem 271, 14883-90. Bröer, S. (2008) Physiol Rev 88, 249-86. Bode, B.P. et al. (2002) Am J Physiol Gastrointest Liver Physiol 283, G1062-73. Fuchs, B.C. et al. (2007) Am J Physiol Cell Physiol 293, C55-63. Nicklin, P. et al. (2009) Cell 136, 521-34. Marin, M. et al. (2003) J Virol 77, 2936-45. 				
Species Reactiv	rity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human Mk: Monkey

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