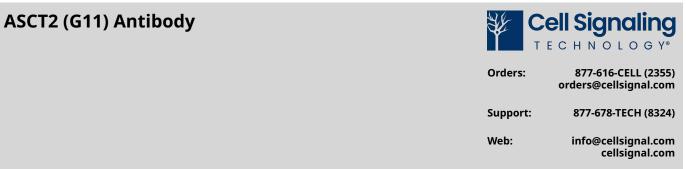
**Revision 1** 

#5100 Store at -20C



3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 49, 75	Source/Isotype: Rabbit	<b>UniProt ID:</b> #Q15758	<b>Entrez-Gene Id:</b> 6510
Product Usage Information	2	<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		ASCT2 (G11) Antibody detects endogenous levels of total ASCT2 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human ASCT2 protein. Antibodies were purified by protein A and peptide affinity chromatography.				
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 References		1. Utsunomiya-Tate, N. et al. (1996) <i>J Biol Chem</i> 271, 14883-90. 2. Bröer, S. (2008) <i>Physiol Rev</i> 88, 249-86. 3. Bode, B.P. et al. (2002) <i>Am J Physiol Gastrointest Liver Physiol</i> 283, G1062-73. 4. Fuchs, B.C. et al. (2007) <i>Am J Physiol Cell Physiol</i> 293, C55-63. 5. Nicklin, P. et al. (2009) <i>Cell</i> 136, 521-34. 6. Marin, M. et al. (2003) <i>J Virol</i> 77, 2936-45.				
Species Reactivity		Species reactivity is determined by testing in at least one approved application (e.g., western blot).				
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse R: Rat Mk: Monkey				
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