Cell Signaling Store at -20C **TSPO Antibody** J. TECHNOLOGY® Orders: 877-616-CELL (2355) orders@cellsignal.com 530 877-678-TECH (8324) Support: info@cellsignal.com cellsignal.com Web: 6 3 Trask Lane | Danvers | Massachusetts | 01923 | USA For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 18	Source/Isotype: Rabbit	UniProt ID: #P30536	Entrez-Gene Id: 706
Product Usage Information	2	Application Western Blotting			Dilution 1:1000	
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		TSPO Antibody recognizes endogenous levels of total TSPO protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of mouse TSPO protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		involved in steroid ho Originally thought to research studies have progression of breast identified by its ability name, Peripheral Ben TSPO has been shown modulates mitochono apoptosis (2,6,7). TSP Steroidogenic Acute F critical for steroidoge aggressive, hormone	rmone synthesis an play a role exclusive implicated TSPO in cancer, neuroinflan to bind benzodiaze izodiazepine Recept drial function and m O is found in the ou Regulatory Factor (Si nesis and tumor pro- dependent cell line	ray of cellular functions; etabolism, and plays a r ter mitochondrial mem tAR) to transport cholest ogression (8,9). This is ill , MCF7, expresses low le	stasis in various cel a steroidogenic cells in a broad range o cal disorders (1,3-5). ues and glial cells, h it is critical for stero ole in both cell prol orane where it coord terol into the mitocl ustrated by studies wels of TSPO where	I types (1,2). s, subsequent f tissues, including TSPO was first ence its alternate bidogenesis, iferation and dinates with nondria and is that show the non- as the more
		TSPO (9). This study, a dependent tumor pro pharmacological com	and others, suggest gression. Numerou pounds and upregu or progression, neu	ependent cell line, MDA that TSPO may be an im s investigations have co ilation in disease, TSPO iroinflammation, neuroo).	portant regulator c ncluded that due to is an attractive targ	of hormone- its high affinity for
Background R	eferences	2. Gatliff, J. and Camp 3. Sileikyte, J. et al. (20 4. Mukherjee, S. and I 5. Da Pozzo, E. et al. (20 6. Riond, J. et al. (1991 7. Veenman, L. and G. 8. Papadopoulos, V. e 9. Batarseh, A. et al. (20 10. Scarf, A.M. and Ka 11. Rupprecht, R. et a 12. Venneti, S. et al. (20 13. Politis, M. et al. (20	anella, M. (2012) <i>Cu</i> 2011) <i>J Biol Chem</i> 286 20as, S.K. (2012) <i>Curr</i> 2012) <i>Curr Mol Med</i> 2012) <i>Curr Mol Med</i> 2012) <i>Biochem</i> 195 2012) <i>Biochim Biopl</i> 2012) <i>Biochim Biopl</i> 2012) <i>Biochim Biopl</i> 2012) <i>Biochim Biopl</i> 2013) <i>Glia</i> 61, 10-23. 2012) <i>Front Pharmac</i>	Mol Med 12, 443-57. 12, 426-42. , 305-11. r Mol Med 12, 398-412. 62, 21-8. hys Acta 1819, 38-56. acl Med 52, 677-80. ag Discov 9, 971-88.	27, 1-12.	
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			
Cross-Reactivity Key	H: Human M: Mouse Mk: Monkey			
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