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## TSPO (D1N7Z) Rabbit mAb



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

Applications: W, IP, IHC-P, IF-IC	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 18	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P30536	Entrez-Gene Id: 706	
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunohistochemistry Immunofluorescence (J	, ,	istry)	1 1: 1:	<b>Solution</b> 1000 100 100 1200 200	
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.					
Specificity/Sensitivity		TSPO (D1N7Z) Rabbit mAb recognizes endogenous levels of total TSPO protein.					
Source / Purifica	ation	<b>on</b> Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding t residues surrounding Gly160 of human TSPO protein.		orresponding to			
Background		involved in steroid horr Originally thought to pl research studies have in progression of breast c identified by its ability t name, Peripheral Benzo TSPO has been shown t modulates mitochondri apoptosis (2,6,7). TSPO Steroidogenic Acute Re critical for steroidogene aggressive, hormone-d aggressive, metastatic, TSPO (9). This study, an dependent tumor prog pharmacological compo	none synthesis an lay a role exclusive mplicated TSPO in ancer, neuroinflan to bind benzodiaze odiazepine Recept to modulate an an is found in the ou gulatory Factor (S esis and tumor pro ependent cell line and hormone-ind d others, suggest ression. Numerou ounds and upregu	ray of cellular functions; etabolism, and plays a ro ter mitochondrial memb tAR) to transport cholest ogression (8,9). This is illu , MCF7, expresses low lev ependent cell line, MDA- that TSPO may be an im s investigations have cor llation in disease, TSPO is proinflammation, neurod	tasis in various cel steroidogenic cells in a broad range o al disorders (1,3-5). es and glial cells, h it is critical for stero ole in both cell prol rane where it coor erol into the mitocl istrated by studies yels of TSPO where MB-231, expresses portant regulator of included that due to a an attractive targ	Il types (1,2). s, subsequent of tissues, including . TSPO was first hence its alternate oidogenesis, liferation and dinates with hondria and is that show the non- tas the more s high levels of of hormone- o its high affinity for	
Background Re	ferences	1. Batarseh, A. and Pap 2. Gatliff, J. and Campar 3. Sileikyte, J. et al. (201 4. Mukherjee, S. and Da 5. Da Pozzo, E. et al. (20 6. Riond, J. et al. (1991) 7. Veenman, L. and Gav 8. Papadopoulos, V. et a 9. Batarseh, A. et al. (20 10. Scarf, A.M. and Kass 11. Rupprecht, R. et al. (20 13. Politis, M. et al. (20 14. Calabresi, P.A. and E	nella, M. (2012) Cu 1) J Biol Chem 286 as, S.K. (2012) Curr 12) Curr Mol Med Eur J Biochem 195 rish, M. (2012) Cur al. (1997) Steroids 12) Biochim Biopl siou, M. (2011) J No (2010) Nat Rev Dro 13) Glia 61, 10-23. 2) Front Pharmac	, 1046-53. 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 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	<b>W:</b> Western Blotting <b>IP:</b> Immunoprecipitation <b>IHC-P:</b> Immunohistochemistry (Paraffin) <b>IF-IC:</b> Immunofluorescence (Immunocytochemistry)		
Cross-Reactivity Key	H: Human		
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