

BM5101**Monoclonal Antibody to Symplekin / SYMPK - Supernatant**

Alternate names:	SPK
Quantity:	5 ml
Background:	Symplekin, 126.5 kD polypeptide (calculated from aa sequence data); apparent Mr 150 kD (after SDS-PAGE); pl 6.5
Uniprot ID:	Q92797
NCBI:	NP_004810.2
GeneID:	8189
Host / Isotype:	Mouse / IgG1
Clone:	Sym-TJ-E150
Immunogen:	Human symplekin
Format:	State: Liquid culture supernatant
Applications:	Immunoblotting. Immunohistochemistry: For nucleoplasmic staining a modified Carnoy fixation procedure is suggested (60% ethanol, 30% chloroform, 10% acetic acid) for 20 min, followed by a 10 min ethanol wash. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The mab reacts specifically with symplekin (a 150 kDa polypeptide) present in 1) tight junctions (zonula occludens) of polar epithelia and Sertoli cells of testis (but not their vascular endothelia!) and 2) exclusively in the nucleoplasm of these and many other cell types which do not form tight junctions (e.g. stratified epithelia such as oesophagus, tongue mucosa, epidermis; squamous cell carcinoma; nonepithelia such as fibroblasts, endothelia, lymphocytes). Species: Human, Rat. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! Shelf life: one year from despatch.
General Readings:	1. Keon BH, Schäfer S, Kuhn C, Grund C, Franke WW. Symplekin, a novel type of tight junction plaque protein. J Cell Biol. 1996 Aug;134(4):1003-18. PubMed PMID: 8769423. 2. Zahraoui A, Louvard D, Galli T. Tight junction, a platform for trafficking and signaling protein complexes. J Cell Biol. 2000 Nov 27;151(5):F31-6. PubMed PMID: 11086016. 3. Langbein L, Grund C, Kuhn C, Praetzel S, Kartenbeck J, Brandner JM, et al. Tight junctions and compositionally related junctional structures in mammalian stratified epithelia and cell cultures derived therefrom. Eur J Cell Biol. 2002 Aug;81(8):419-35. PubMed PMID: 12234014. 4. Langbein L, Pape UF, Grund C, Kuhn C, Praetzel S, Moll I, et al. Tight junction-

related structures in the absence of a lumen: occludin, claudins and tight junction plaque proteins in densely packed cell formations of stratified epithelia and squamous cell carcinomas. Eur J Cell Biol. 2003 Aug;82(8):385-400. PubMed PMID: 14533737.