

S100A9 (D5O6O) Rabbit mAb (IHC Formulated)



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

| Applications: Re IHC-Bond, IHC-P | activity: H | Sensitivity: Endogenous | Source/Isotype: Rabbit IgG | UniProt ID: #P06702 | Entrez-Gene Id: 6280 | | |
|-------------------------------------|----------------|---|--------------------------------------|-------------------------------|-----------------------------------|--|--|
| Product Usage Information | | Application IHC Leica Bond Immunohistochemistry (| Paraffin) | | Dilution 1:800 1:400 | | |
| 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 | , | S100A9 (D6O5O) Rabbit mAb (IHC Formulated) recognizes endogenous levels of total S100A9 protein. | | | | | |
| Source / Purification | | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro107 of human S100A9 protein. | | | | | |
| Background Background Referenc | :es | S100A8 and S100A9 are calcium-binding proteins that form a noncovalent heterodimer present in monocytes, neutrophils, macrophages, and some epithelial cells (1,2). S100A8 and S100A9 are secreted by a tubulin-dependent mechanism during inflammatory conditions and have antimicrobial and chemotactic functions (3-5). Extracellular S100A8/S100A9 also induces an inflammatory response in endothelial cells, including induction of proinflammatory chemokines and adhesion molecules and increased vascular permeability (6). S100A8/S100A9 induces and recruits myeloid-derived suppressor cells (MDSC) in tumor-bearing mice (7). MDSC produce additional S100A8/S100A9 themselves, resulting in a positive feedback mechanism that sustains MDSC accumulation (7). S100A8/S100A9 is also highly expressed in psoriatic skin, where it directly upregulates transcription of complement protein C3, which contributes to disease (8). In addition, tumor-infiltrating myeloid cells induce expression of S100A8 and S100A9 in cancer cells, which increases invasiveness and metastasis (9). 1. Odink, K. et al. (1987) <i>Nature</i> 330, 80-2. 2. Edgeworth, J. et al. (1991) / <i>Biol Chem</i> 266, 7706-13. | | | | | |
| | | Lugework, J. et al. (1997) J Biol Chem 272, 9496-502. Steinbakk, M. et al. (1990) Lancet 336, 763-5. Ryckman, C. et al. (2003) J Immunol 170, 3233-42. Viemann, D. et al. (2005) Blood 105, 2955-62. Sinha, P. et al. (2008) J Immunol 181, 4666-75. Schonthaler, H.B. et al. (2013) Immunity 39, 1171-81. Lim, S.Y. et al. (2016) Oncogene 35, 5735-45. | | | | | |
| Species Reactivity | | Species reactivity is determined by testing in at least one approved application (e.g., western blot). | | | | | |
| Applications Key | | IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin) | | | | | |
| Cross-Reactivity Key | | H: Human | | | | | |
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