

Monoclonal Antibody to Fibroblasts (Pan Reticular) - Purified

Alternate names:	CASP10, FLICE2, MCH4, ALPS2, Caspase 10, CASP 10, apoptosis-related cysteine protease, ICE-like apoptotic protease 4, FAS-associated death domain protein interleukin-1B-converting enzyme 2
Catalog No.:	SP6234CP
Quantity:	50 µg
Concentration:	0.4 mg/ml (after reconstitution)
Background:	Connective tissue consists of a ground of glycosaminoglycans, proteoglycans and glycoproteins through which various fibres run. These fibres can be collagenous, elastic or reticular. Reticular fibres are composed from the family of collagen proteins and give tensile strength. These fibres are made by reticular fibroblasts.
Immunogen:	Murine thymic reticulum. Epitope: The antigen has not been fully characterized; the epitope may be part of reticulin.
Format:	State: Lyophilized purified Ig fraction. Purification: Affinity Chromatography. Buffer System: This stock solution contains PBS, pH 7.2 with 5 mg/ml BSA as a stabilizer and 0.09% Sodium Azide as preservative. Reconstitution: Restore with 0.5 ml distilled water.
Applications:	Immunohistochemistry on Frozen Sections: 1 µg/ml (1/400) freshly prepared for Mouse tissue and 4 µg/ml (1/100) on Human tissue. <i>Recommended Positive Control:</i> Mouse spleen. Does not react on routinely processed Paraffin Sections. Immunofluorescence. Has been described to work in FACS. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Reacts with mouse reticular fibroblasts, reticular fibres and human tonsil. ER-TR7 detects an antigen present in and produced by reticular fibroblasts. The recognized antigen is most likely distinct from laminin, fibronectin, collagen types I-IV, heparan sulfate proteoglycan, entactin, and nidogen. The antibody is useful to stain the microanatomy of various organs, in particular the connective tissue framework in lymphoid organs. The antibody also stains subendothelial deposits in the plaque area of atherosclerotic plaques. Antigen Distribution: Isolated Cells: The antigen is found in the cytoplasm of fibroblast cell lines. Tissue Sections: The antigen is expressed in connective tissues which form a supporting

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network between parenchymal cells of all organs tested so far (see table below). Thus, the supportive mesenchymal structures of larger vessels can be studied. In spleen, a very clear delineation of red and white pulp is obtained. Capsule, sinuses, follicles, paracortex and medullary cords are also clearly delineated in lymph nodes.

Species Reactivity: **Tested:** Mouse and Human.

Storage: Store the lyophilized antibody at 2-8°C.
Freeze stock solution and aliquots thereof at -20°C.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Product Citation:

1. Daniela Malan, Michael Reppel, Radoslaw Dobrowolski, Wilhelm Roell, Neil Smyth, Juergen Hescheler, Mats Paulsson, Wilhelm Bloch, and Bernd K. Fleischmann. Lack of Laminin 1 In ES Cell-Derived Cardiomyocytes Causes Inhomogeneous Electrical Spreading Despite Intact Differentiation And Function. *Stem Cells, Jan 2009; 27: 88-99.*
2. Javier Rangel-Moreno, Juan E. Moyron-Quiroz, Louise Hartson, Kim Kusser, and Troy D. Randall. Pulmonary expression of CXC chemokine ligand 13, CC chemokine ligand 19, and CC chemokine ligand 21 is essential for local immunity to influenza *PNAS, Jun 2007; 104: 10577-10582.*
3. Ariel H. Achtman, Uta E. Höpken, Carola Bernert, and Martin Lipp CCR7-deficient mice develop atypically persistent germinal centers in response to thymus-independent type 2 antigens. *J. Leukoc. Biol., Mar 2009; 85: 409-417.*
4. Javier Rangel-Moreno, Juan Moyron-Quiroz, Kim Kusser, Louise Hartson, Hideki Nakano, and Troy D. Randall. Role of CXC Chemokine Ligand 13, CC Chemokine Ligand (CCL) 19, and CCL21 in the Organization and Function of Nasal-Associated Lymphoid Tissue. *J. Immunol., Oct 2005; 175: 4904-4913.*
5. Beom K. Choi, Young H. Kim, Patrick M. Kwon, Sang C. Lee, Sang W. Kang, Moon S. Kim, Myoung J. Lee, and Byoung S. Kwon. 4-1BB Functions As a Survival Factor in Dendritic Cells. *J. Immunol., Apr 2009; 182: 4107-4115.*

General References: 1. Van Vlieth, E., M. Melis, J.M.Foidart, W. van Ewijk: Reticular fibroblasts in peripheral lymphoid organs identified by a monoclonal antibody. *J Histochem Cytochem* 34: 883-890. (1986)

Protocols: **Protocol with frozen, ice-cold acetone-fixed sections:**
(The whole procedure is performed at room temperature)

1. Wash in PBS
2. Block endogenous peroxidase
3. Wash in PBS
4. Block with 10% normal goat serum in PBS for 30min. in a humid chamber
5. Incubate with primary antibody (dilution see datasheet) for 1h in a humid chamber
6. Wash in PBS
7. Incubate with secondary antibody (peroxidase-conjugated goat anti rat IgG (H+L) minimal-cross reaction to mouse) for 1h in a humid chamber
8. Wash in PBS
9. Incubate with AEC substrate (3-amino-9-ethylcarbazol) for 12min.
10. Wash in PBS
11. Counterstain with Mayers hemalum

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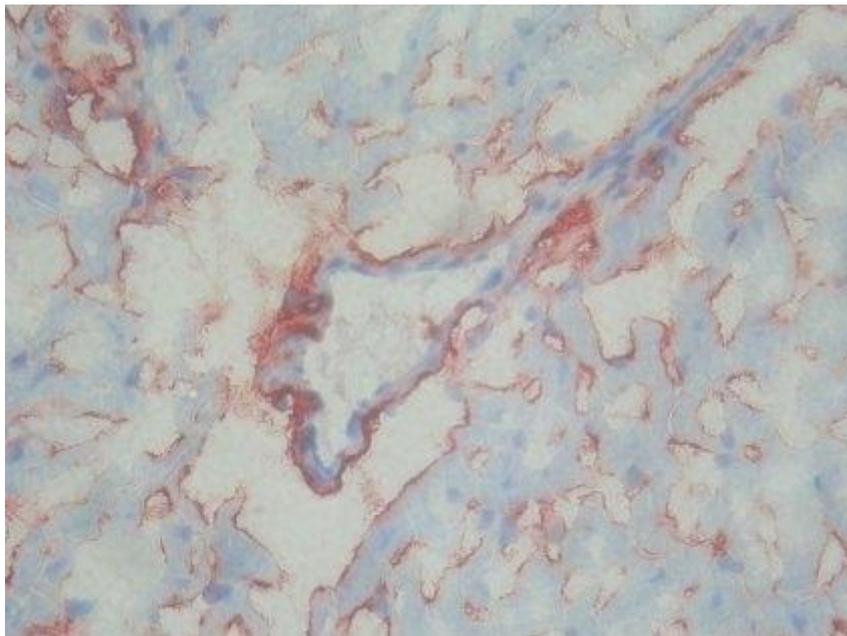
Pictures:

Organ	Reactivity with
Submandibular salivary gland	Interstitial CT ¹⁾²⁾ between acini
Stomach	Lamina propria, CT of muscularis, serosa
Small intestine	Lamina propria, CT of muscularis, serosa
Pancreas	Interstitial CT between acini
Liver	Lining of liver cords
Skin	Dermis
Ear	Extracellular matrix of cartilage, dermis
Striated muscle	Interstitial CT between muscle fibres
Cardiac muscle	Interstitial CT between muscle fibres
Tendon	Fibres
Ovary	Connective tissue stroma, tunica albuginea
Testis	Interstitial CT between seminiferous tubuli
Kidney	Glomeruli and interstitial CT between tubuli
Brain	Blood vessels, meninges

¹⁾ CT= connective tissue

²⁾ In tissues tested ER-TR7 reacts with blood vessel walls and capsules

Reactivity of ER-TR7 with Various Non-Lymphoid Organs Of the Mouse.

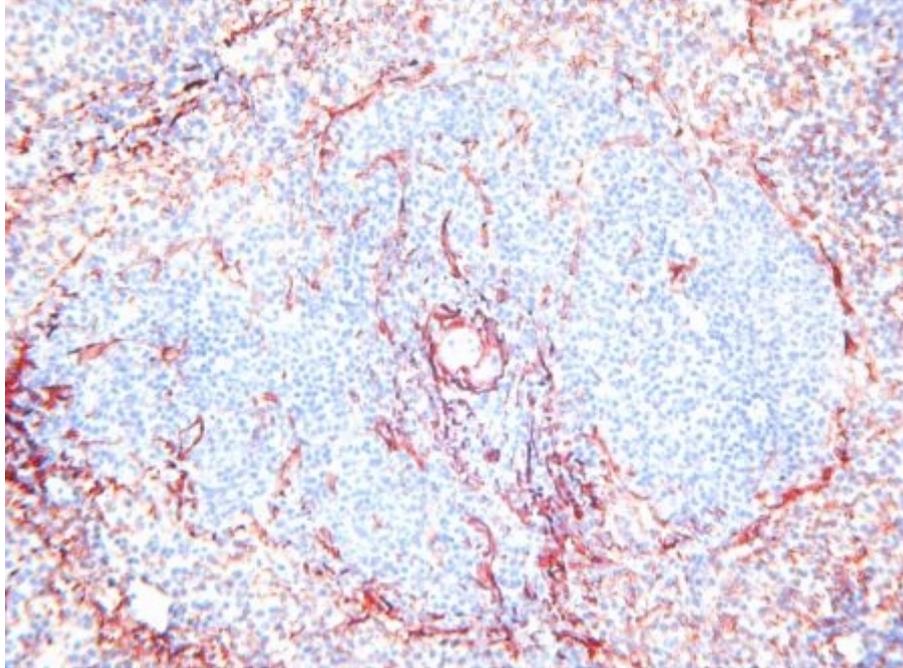


Staining of Mouse Heart Frozen Sections Using Antibody clone ER-TR7 at 4µg/ml.

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Immunohistochemistry on mouse spleen frozen sections using fibroblast antibody clone ER-TR7.

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