コスモ・バイオ株式会社

Trans Genic Inc.

CodeNo.KJ091

研究用試薬

抗ラット MFH モノクローナル抗体（Clone No.A3）

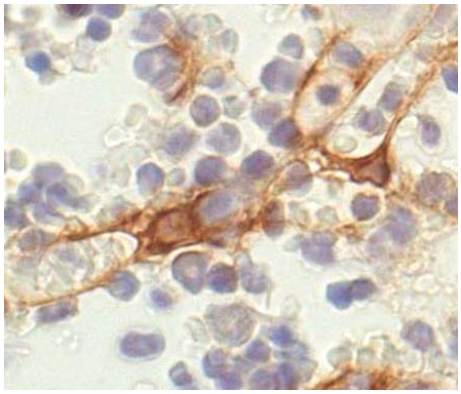
A3 モノクローナル抗体は、ラット悪性線維性組織球腫（MFH:malignant fibrous histocytoma）細胞株（MT-8）を免疫抗原として作製された抗体です。

免疫組織化学的な検討の結果、本抗体の抗原は MT-8 の細胞膜上に存在し、分子量はおよそ 80kDa であることが確認されています。

本抗体は、これまでの研究結果からラット骨髄の幹細胞を認識することが示されています。その他ラットの肺線維化および肝線維化において未分化間葉系幹細胞も認識することが報告されております。

容量	50 µg（200 µL/vial）
形状	マウスモノクローナル抗体 0.25 mg/mL、凍結品
バッファー	PBS [2%ブロックエース（安定化蛋白）、0.1% proclin 含有]
保管方法	－20℃以下 抗体を低濃度にて冷蔵保管されますと、失活する恐れがあります。 融解後は 4℃で保存し、お早めにご使用下さい。 また凍結融解を繰り返すことは避けて下さい。
クローン番号	A3
サブクラス	IgG1
製造方法	MT-8 で免疫した BALB/c マウスの脾臓細胞とマウスミエローマ P3-X63 Ag8.653 を融合して得たハイブリドーマを BALB/c マウス腹腔内で増殖させ、腹水を採取。採取した腹水より Protein G アフィニティーカラムにて精製。
使用濃度	免疫染色：1~2 µg/mL（培養細胞はアセトン固定、組織は PLP あるいはザンボニ固定後のパラフィン包埋切片および凍結切片に適用）ウエスタンブロッティング：1~2 µg/mL

A3 の免疫組織化学染色陽性標本



ラット骨髄幹細胞

提供 ： 大阪府立大学 大学院生命環境科学研究科
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【参考文献】

1. Yamate, J., Tajima, M., Togo, M., Shibuya, K., Ihara, M. and Kudow, S. (1991). Heterogeneity of cloned cell lines established from a transplantable rat malignant fibrous histiocytoma. Jpn. J. Cancer Res. 82: 298-307.
2. Kumagai, D., Yamate, J., Tajima, T., Tsukamoto, Y., Yasui, H., Kuwamura, M., Kotani,T., and Sakuma, S. (2000). Distribution of cells labeled by a monoclonal antibody (A3) against a cloned cell line derived from a rat malignant fibrous histiocytoma. J. Comp. Pathol. 123: 77-87.
3. Yamate J, Ogata K, Yuasa T, Kuwamura M, Takenaka S, Kumagai D, Itoh K, LaMarre J.(2007). Adipogenic, osteogenic and myofibrogenic differentiations of a rat malignant fibrous histiocytoma(MEF)-derived cell line, and a relationship of MEF cells with embryonal mesenchymal, perivascular and bone marrow stem cell. Eur J Cancer. 43(18):2747-56.
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6 Ichikawa C, Izawa T, Juniantito V, Tanaka M, Hori M, Tanaka K, Takenaka S, Kuwamura M, Yamate J.(2013). Rat hair follicle-constituting cells labeled by a newly-developed somatic stem cell-recognizing antibody: a possible marker of hair follicle development. Histol Histopathol. 28: 257-268
7 Hori M, Juniantito V, Izawa T, Ichikawa C, Tanaka M, Tanaka K, Takenaka S, Kuwamura M, Yamate J.(2013). Distribution of cells labelled by a novel somatic stem cell-recognizing antibody (A3) in pulmonary genesis and bleomycin induced pulmonary fibrosis in rats.J Comp Pathol. 148: 385-395
8 Tennakoon AH, Izawa T, Wijesundera KK, Murakami H, Katou-Ichikawa C, Tanaka M, Golbar HM, Kuwamura M, Yamate J.(2014) .Immunohistochemical characterization of glial fibrillary acidic protein (GFAP)-expressing cells in a rat liver cirrhosis model induced by repeated injections of thioacetamide (TAA). Exp Toxicol Pathol. 67:53–63

製造元

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Trans Genic Inc.

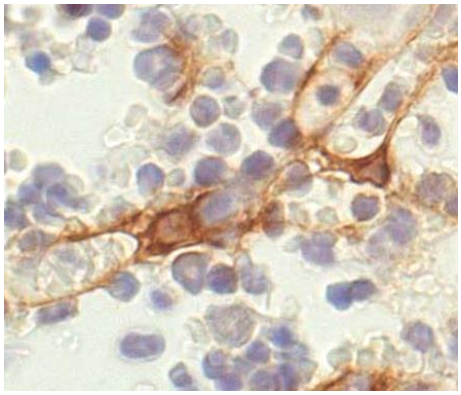
Code No.KJ091

For research use only

Anti Rat MFH Monoclonal Antibody (Clone No. A3)

Package Size	50µg (200µL / vial)
Format	Mouse monoclonal antibody 0.25mg/mL
Buffer	PBS [containing 2% Block Ace as a stabilizer, 0.1% Proclin as a bacteriostat]
Storage	Store below -20℃ Once thawed, store at 4℃. Repeated freeze-thaw cycles should be avoided.
Clone No.	A3
Sub class	IgG1
Purification method	The splenic lymphocytes from BALB/c mouse, immunized with MT-8 were fused to myeloma P3X63 Ag8.653 cells. The cell line (A3) with positive reaction was grown in ascitic fluid of BALB/c mouse, from which the antibody was purified by Protein G affinity chromatography.
Use	Immunohistochemistry(culture cell: acetone fixed, tissue: paraffin section after Zambonl's fixative fixed),Western blotting
Working dilution	For Immunohistochemistry ; 1~2µg/mL For Western blotting ; 1~2µg/mL

Positive Sample of Immunohistochemistry



Rat myeloid stem cell

Drs. Yamate, J. at Laboratory of Veterinary Pathology,
Graduate School of Agriculture and Biological Sciences, Osaka Prefecture University

Anti Rat MFH Monoclonal Antibody (Clone No. A3)

【Reference】

1. Yamate, J., Tajima, M., Togo, M., Shibuya, K., Ihara, M. and Kudow, S. (1991). Heterogeneity of cloned cell lines established from a transplantable rat malignant fibrous histiocytoma. Jpn. J. Cancer Res. 82: 298-307.
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