

KS130	Anti Human CD147(EMMPRIN) Monoclonal Antibody (Clone No.2G2)			
Primary Source	HGNC:1116		Application	
Туре	Monoclonal	WB	Not tested	
Immunogen	human cancer cell line	IHC	Not tested	
Raised in	Mouse	ICC	Not tested	
Myeloma	P3U1	ELISA	Not tested	
Clone number	2G2	FCM	0.5-1.0 µg/mL	
Isotype	lgG1κ	Neutralization	Not tested	
Source	Serum-free medium	IP	5.0-10.0 μg/mL	
Purification notes	ProteinG			
Cross Reactivity	Not yet tested in other species.			
Concentration	0.25 mg/mL			
Contents (Volume)	50 μg (200 μL/vial)			
Label	Unlabeled			
Buffer	PBS [containing 2 % Block Ace as a stabilizer, 0.1 %Proclin as a bacteriostat]			
Storage	Store below –20 °C. Once thawed, store at 4 °C. Repeated freeze-thaw cycles should be avoided.			

Note

CD147 (also known as Bsg, EMMPRIN) is a 58-kDa transmembrane glycoprotein with two immunoglobulin-like domains and expressed at high levels in many types of tumors and stromal cells. So far, several studies have demonstrated that CD147 plays important role in the progression of malignancies by regulating expression of MMPs (MMP-1, MMP-2, MMP-3, MT-1 MMP) which have important roles in promoting tumor growth, invasion and metastasis. It has been shown that CD147 siRNA inhibited the proliferation, invasiveness, and metastatis activity of human malignant melanoma cell, and that antibody to CD147 inhibit the production of MMPs by fibroblasts and the invasiveness of melanoma cells.

In addition to its ability to stimulate stromal MMPs expression, CD147 also induces VEGF and progresses tumor angiogenesis. It has been also shown that CD147 plays a role in systemic lupus erythematosus.

This antibody is specific to human CD147 and will be useful for FACS and immunoprecipitation.

CD147 (Bsg、EMMPRIN) は、2 つの lg ドメインを持つ 58 kDa の膜糖タンパク質で、多くの癌細胞や間質細胞で高発現しています。これまでの研究 で CD147 は、腫瘍の成長、浸潤、転移などを促進する MMPs (MMP-1, MMP-2, MMP-3, MT-1 MMP) の発現を調節することで、悪性腫瘍の発達に重 要な役割を果たすことが明らかとなり、CD147 siRNA による悪性黒色腫の増殖、浸潤、転移の阻害や抗 CD147 抗体によるMMPs 産生及び腫瘍 細胞浸潤の阻害なども示されています。また CD147 は VEGF の発現を誘導し、腫瘍の血管新生を促進するほか、全身性エリテマトーデスに関 与することも示唆されています

本抗体はヒトCD147に特異的な抗体であり、FACS、免疫沈降に使用できます。

Reference

1 Tang Y. et al.: Regulation of vascular endothelial growth factor expression by EMMPRIN via the PI3K-Akt signaling pathway.

2 Chen X. et al.: A small interfering CD147-targeting RNA inhibited the proliferation, invasiveness, and metastatic activity of

malignant melanoma 3 Egawa N. et al.:

Membrane type 1 matrix metalloproteinase (MT1-MMP/MMP-14) cleaves and releases a 22-kDa extracellular matrix metalloproteinase inducer (EMMPRIN) fragment from tumor cells

4 Danilo Millimaggi. et al. Tumor Vesicle-Associated CD147 Modulates the Angiogenic Capability of Endothelial Cells

5 Pistol G. et al.: Roles of CD147 on T lymphocytes activation and MMP-9 secretion in systemic lupus erythematosus.

Mol Cancer Res 2006 Jun;4(6):371-7. Cancer Res 2006 Dec 1;66(23):11323-30.

J Biol Chem 2006 Dec 8;281(49):37576-85. Epub 2006 Oct 18.

2007 April: 9(4): 349-357.

2007 Mar-Apr;11(2):339-48.

WARNING AND PRECAUTION

- 1. Not for diagnostic use. The safety and efficacy of product in diagnostic or other clinical uses has not been
- 2. Harmful by inhalation, in contact with skin and if swallowed. Do not breathe dust. Avoid contact with skin and eyes
- 3. If contact with skin and eyes, wash all affected areas with large volume of water. If inhaled remove to fresh air. In
- 4. Wash hand thoroughly after handling the product
- 5. Do not use this product if container is broken or some contaminants are detected
- 6. When preserving the product, Close the container, ensure it does not fall aside or down.
- 7. Dispose of the container and expired reagents in accordance with federal, state and local government regulations
- 8. Do not use the container and accessories of the product for other purpose.

取り扱い上の注意

この添付文書をよく読んでから使用して下さい。

- 1. 本品は研究用試薬であり、医薬品その他の目的にはご使用になれません
- 2. 取り扱い中は皮膚、粘膜、着衣に触れたり、目に入らないように適切な措置を行って下さい。
- 3. 試薬が誤って目や口に入った場合には、水で十分に洗い流すなどの応急処置を行い、必要があれ ば医師の手当を受けて下さい
- 4. 取り扱い後には手洗いを十分に行って下さい。
- 5. 容器の破損、異物混入等異常が認められた物は使用しないで下さい。
- 試薬を保管する場合は、蓋をし、転倒落下防止を確実にし、指定の貯蔵方法で保管して下さい。
- 使用後の容器は、廃棄物に関する規定に従って処理して下さい。
- 容器、付属品等の他目的への転用は保証できません。

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