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RABGTPases in MT1-MMP trafficking and cell invasion ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4601268>

Jun 24, 2015 - However, several differences between both cell systems could be responsible for this: i) MT1-MMP surface levels were measured in macrophages that were cultured in the constant presence ...

Cited by: 13 Author: Stefan Linder, Giorgio Scita

Publish Year: 2015

SPIN90 Knockdown Attenuates the Formation and ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3858329>

Dec 10, 2013 - Among these, cyclin D1 is required for the G1-to-S transition. Earlier transcriptional profiling studies have shown that cyclin D1 is a critical downstream effector of EGFR signaling and EG...

Cited by: 12 Author: Hyejin Oh, Hwen Kim, Kyung-Hwon Chun...

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Epidermal Growth Factor and Membrane Trafficking: EGF ...<https://www.researchgate.net/publication/274445084>

Here, we characterized the interaction between PS-ASOs and epidermal growth factor receptor (EGFR). We found that PS-ASOs trafficked together with EGF and EGFR into clathrin-coated pit structures.

Author: Mario Barbieri

1956 - Gene ResultEGFR epidermal growth factor receptor ...<https://www.ncbi.nlm.nih.gov/gene/1956>

The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor, thus inducing receptor dimerization and tyrosine autophosphorylation leading to cell proliferation.

(PDF) Epidermal Growth Factor and Membrane Trafficking<https://www.researchgate.net/publication/274955488...>

Oct 30, 2000 - Barbieri et al. Epidermal Growth Factor and Endocytosis Requires Rab5a 545 in cells expressing Rab5a N34, whereas cells expressing Rab5a suffered an 80% loss in EGF binding.

1950 - Gene ResultEGF epidermal growth factor [(human)]<https://www.ncbi.nlm.nih.gov/gene/1950>

This gene encodes a member of the epidermal growth factor superfamily. The encoded preproprotein is proteolytically processed to generate the 53-amino acid epidermal growth factor peptide. This protein acts a potent mitogenic factor that plays an important role in the growth, proliferation and differentiation of numerous cell types. This protein acts by binding with high affinity to the cell ...

Targeting Rabs as a novel therapeutic strategy for cancer ...<https://www.sciencedirect.com/science/article/pii/S1359644617301551>

Aug 01, 2017 - The preferential interaction between Rab5A and Rin1 appears to control the ability and sensitivity of Rab5A in regulating the EGFR degradation pathway in HeLa cells. Rab5C promotes a multiple-domain Arf-GAP Protein 1 (AMAP1)-protein kinase D2(PKCD2) complex formation to enhance integrin β1 recycling in EGF-induced cancer invasion [24].

Cited by: 31

Author: Xiaoyu Qin, Jiongyi Wang, Xinlin Wang, Fe...

Publish Year: 2017

The role of endocytic Rab GTPases in regulation of growth ...<https://www.tandfonline.com/doi/full/10.1080/21541248.2015.1050152>

Aug 20, 2015 - Rab5, a GTPase essential for early endosomal formation and trafficking, is involved in lamellipodia formation and actin remodeling in response to growth factor stimulation 99,100 and this may be attributed to tyrosine signaling and subsequent activation of Ras and Rab5 GAPs. 101,102 It is expressed differentially in cancer cells where Yu and others identified Rab5a as a potential major factor in the transformation of tumor cells ...

www.science.gov<https://www.science.gov/topicpages/e/endothelial+icgap1+regulates.html>

May 30, 2018 - The coordinating role of IQGAP 1 in the regulation of local, endosome-specific actin networks. PubMed Central. Samson, Edward B.; Tsao, David S.; Zmick, Jan ...

AJP: Cell Physiology via MedWorm.com<https://medworm.com/journal/ajp-cell-physiology.xml>

In conclusion, this study demonstrated an improved method for monitoring and studying the interactions between cancer cells and the underlying adherent cells during invasion in real time. Alterations in cellular biophysical properties (Rb, h) associated with cancer transendothelial invasion were detected. (Source: AJP: Cell Physiology)

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Basic Study

Direct interaction between Rab5a and Rab4a enhanced epidermal growth factor-stimulated proliferation of gastric cancer cells

Cao GJ *et al.* Rab5a and Rab4a enhanced gastric cancer

Guo-Jun Cao, Di Wang, Zhao-Pei Zeng, Guo-Xiang Wang, Chun-Jiu Hu, Zhi-Fang Xing

Abstract

BACKGROUND

Gastric cancer (GC) is one of the leading causes of cancer-related death worldwide. Although targeted therapies such as antibodies against human epidermal growth factor receptor (EGFR) 2 or vascular endothelial growth factor receptor 2 have been widely

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<https://www.sciencedirect.com/science/article/pii/S1359644617301551>

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