




Anti-TGF beta Receptor I antibody ab121024

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概述

产品名称	Anti-TGF beta Receptor I 抗体
描述	山羊多克隆抗体 to TGF beta Receptor I
宿主	Goat
经测试应用	适用于: IHC-P, Flow Cyt (Intra), WB
种属反应性	与反应: Rat, Human 预测可用于: Mouse, Rabbit, Horse, Cow, Dog, Pig, Rhesus monkey, Gorilla 
免疫原	Synthetic peptide within Human TGF beta Receptor I aa 50-150 (internal sequence). The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements. Corresponds to NP_004603.1 and NP_001124388.1. Database link: P36897  Run BLAST with  Run BLAST with
阳性对照	WB: Rat liver and lung tissue lysates. IHC-P: Human adrenal gland and small intestine tissues. Flow Cyt (Intra): HeLa cells
常规说明	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 99% Tris buffered saline, 0.5% BSA
纯度	Immunogen affinity purified

纯化说明	ab121024 is purified from Goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
克隆	多克隆
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab121024于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Flow Cyt (Intra)		Use a concentration of 10 µg/ml.
WB	★ ★ ★ ★ ★ (1)	Use a concentration of 0.03 - 0.1 µg/ml. Detects a band of approximately 55 kDa (predicted molecular weight: 55 kDa). 3% milk in TBST for blocking, 1 hr at RT. Primary antibody diluted in blocking buffer, 1 hr at room temperature.

靶标

功能	On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for TGF-beta.
组织特异性	Found in all tissues examined, most abundant in placenta and least abundant in brain and heart.
疾病相关	<p>Defects in TGFBR1 are the cause of Loeys-Dietz syndrome type 1A (LDS1A) [MIM:609192]; also known as Furlong syndrome or Loeys-Dietz aortic aneurysm syndrome (LDAS). LDS1 is an aortic aneurysm syndrome with widespread systemic involvement. The disorder is characterized by arterial tortuosity and aneurysms, craniosynostosis, hypertelorism, and bifid uvula or cleft palate. Other findings include exotropia, micrognathia and retrognathia, structural brain abnormalities, intellectual deficit, congenital heart disease, translucent skin, joint hyperlaxity and aneurysm with dissection throughout the arterial tree.</p> <p>Defects in TGFBR1 are the cause of Loeys-Dietz syndrome type 2A (LDS2A) [MIM:608967]. LDS2 is an aortic aneurysm syndrome with widespread systemic involvement. Physical findings include prominent joint laxity, easy bruising, wide and atrophic scars, velvety and translucent skin with easily visible veins, spontaneous rupture of the spleen or bowel, diffuse arterial aneurysms and dissections, and catastrophic complications of pregnancy, including rupture of the gravid uterus and the arteries, either during pregnancy or in the immediate postpartum period. LDS2 is characterized by the absence of craniofacial abnormalities with the exception of bifid uvula that can be present in some patients.</p> <p>Defects in TGFBR1 are the cause of aortic aneurysm familial thoracic type 5 (AAT5) [MIM:608967]. Aneurysms and dissections of the aorta usually result from degenerative changes in the aortic wall. Thoracic aortic aneurysms and dissections are primarily associated with a</p>

characteristic histologic appearance known as 'medial necrosis' in which there is degeneration and fragmentation of elastic fibers, loss of smooth muscle cells, and an accumulation of basophilic ground substance.

序列相似性

Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family. TGFB receptor subfamily.

Contains 1 GS domain.

Contains 1 protein kinase domain.

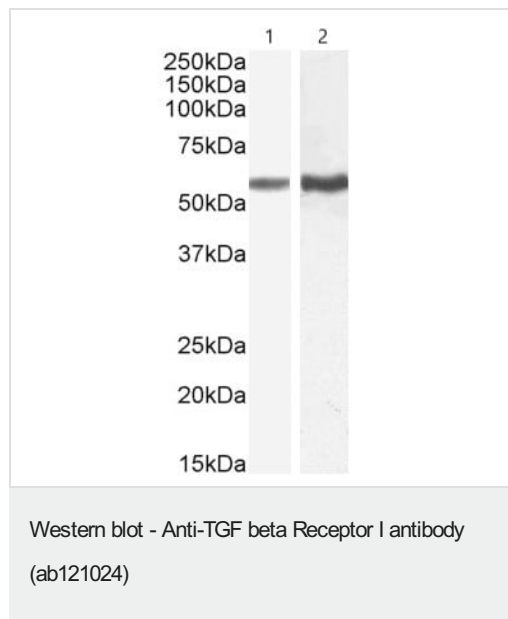
翻译后修饰

Phosphorylated at basal levels in the absence of ligand binding. Activated by multiple phosphorylation, mainly in the GS region.

细胞定位

Membrane.

图片



Lane 1 : Anti-TGF beta Receptor I antibody (ab121024) at 0.1 $\mu\text{g/ml}$

Lane 2 : Anti-TGF beta Receptor I antibody (ab121024) at 0.03 $\mu\text{g/ml}$

Lane 1 : Rat liver lysate in RIPA buffer

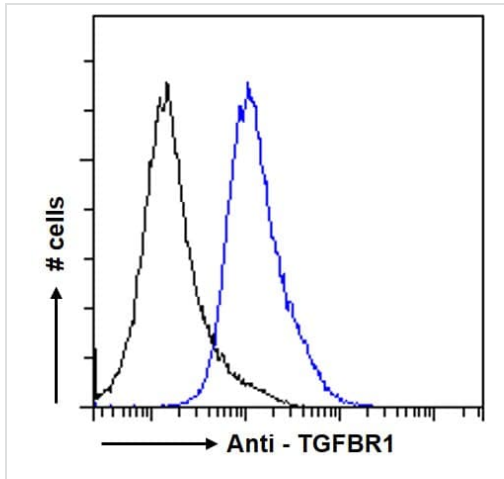
Lane 2 : Rat lung lysate in RIPA buffer

Lysates/proteins at 35 μg per lane.

Predicted band size: 55 kDa

Observed band size: 55 kDa

Primary incubation 1 hour at room temperature. Detected by chemiluminescence.



Flow Cytometry (Intracellular) - Anti-TGF beta
Receptor I antibody (ab121024)

Flow cytometric (Intracellular) analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.

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