SunLong Biotech Co.,LTD
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Rabbit Anti-ACVR1B antibody

SLM-60490R

Product Name	ACVR1B
Chinese Name	
Immunogen Species	Rabbit
Clonality	Monoclonal
Clone NO.	A8B3
React Species	Human,Mouse
Applications	WB=1:500-1000,ICC/IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
Lsotype	IgG/Kappa
Purification	Affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	跨膜丝氨酸/苏氨酸激酶激活素 1 型受体与激活素 2 型受体形成激活素受体复合物（ACVR2A 或 ACVR2B）。将激活素信号从细胞表面传递到细胞质，从而调节许多生理和病理过程，包括神经元分化和神经元存活、毛囊发育和循环、垂体产生 FSH、伤口愈合、Extracellular matrix 产生，免疫抑制与癌变。激活素也被认为在卵巢卵泡发育中具有旁分泌或自分泌作用。在受体复合体中，2 型受体（ACVR2A 和/或 ACVR2B）作为主要的激活素受体，而 1 型受体（如 ACVR1B）作为激活素信号的下游传感器。激活素与质膜上的 2 型受体结合并激活其丝氨酸苏氨酸激酶。活化的 2 型受体随后磷酸化并活化 1 型受体，例如 ACVR1B。一旦激活，

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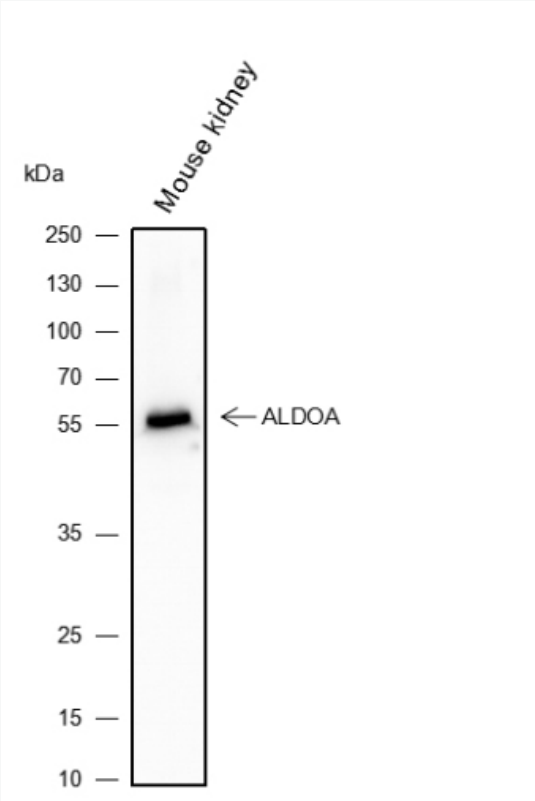
1 型受体结合并磷酸化 C 末端丝氨酸残基上的 SMAD 蛋白 SMAD2 和 SMAD3。SMAD2 和 SMAD3 在与激活素受体结合并随后磷酸化后不久被释放到细胞质中，在那里它们与共同的伴侣 SMAD4 相互作用。这个 SMAD 复合体易位到 The nucleus 中，在那里它介导激活素诱导的转录。抑制性 SMAD7 通过 FKBP1A 被招募到 ACVR1B，可以阻止 SMAD2 和 SMAD3 与激活素受体复合物的结合，从而阻断激活素信号。激活素 Signal transduction 也被通过 IGSF1 抑制素辅受体与抑制素 B 受体的结合所拮抗。ACVR1B 也磷酸化 TDP2。

Product Picture



Blocking buffer: 5% NFDM/TBST

Primary ab dilution: 1:1000

Primary ab incubation condition: 2 hours at room temperature

Secondary ab: Goat Anti-Rabbit IgG H&L (HRP)

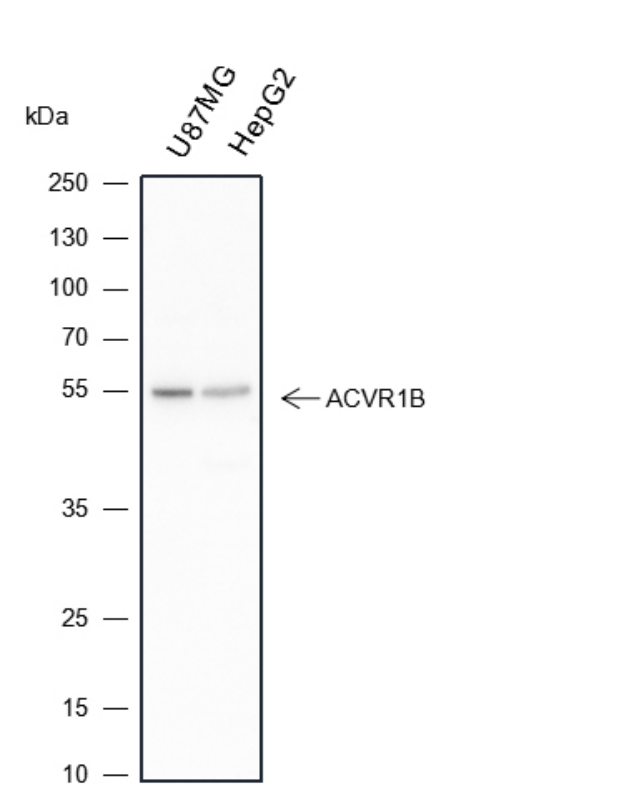
Lysate: Mouse kidney

Protein loading quantity: 20 μg

Exposure time: 1 s

Predicted MW: 52 kDa

Observed MW: 52 kDa



Blocking buffer: 5% NFDM/TBST

Primary ab dilution: 1:1000

Primary ab incubation condition: 2 hours at room temperature

Secondary ab: Goat Anti-Rabbit IgG H&L (HRP)

Lysate: U87MG, HepG2

Protein loading quantity: 20 μg

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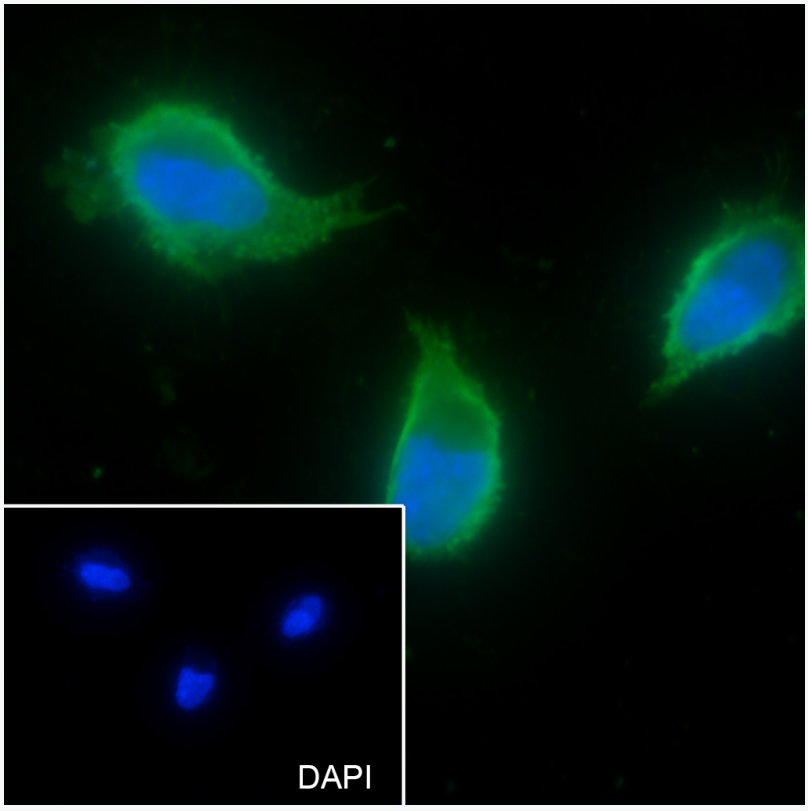

Cell line: SH-SY5Y

Fixative: 4% Paraformaldehyde

Permeabilization: 0.1% TritonX-100

Primary ab dilution: 1:50

Primary incubation condition: 4°C overnight

Secondary ab: Goat Anti-Rabbit IgG

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Nuclear counter stain: DAPI (Blue)

Comment: Color green is the positive signal for SLM-60490R