



Rabbit Anti-Punt antibody

SL19596R

Product Name:	Punt
Chinese Name:	激活受体Atr抗体
Alias:	Activin A receptor 88CD; Activin receptor; Activin receptor type II; Atr; Atr88CD; AtrII; dlhC; Dorsal holes C; j5A5; Pun; Put; STK C; STKC; TGF B; TGF beta; TGF beta I; TGF beta type receptor like; Tgf r.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Fruit fly (<i>Drosophila melanogaster</i>)
Applications:	IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	59kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Punt:421-516/516
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Fruit fly (<i>Drosophila melanogaster</i>) ovaries contains two set of germline stem cells surrounded by a group of highly differentiated somatic cells that express genes for two phenotypes (hedgehog and wingless). The TGF beta super family member, decpentalplegic (<i>dpp</i>) or its homologue BMP2/4 is specifically required for maintenance and promotes its cell division in the female germline. The Signaling by TGF beta

related factors requires ligand induced association between type I and type II transmembrane receptors that have endogenous serine/threonine kinases activity. In Drosophila, the type I receptor is encoded by the thick veins (tkv) gene and the type II receptor is encoded by the punt (put) gene. These receptors mediate signaling by decapentaplegic (dpp), a member of the bone morphogenetic protein (BMP) subgroup of TGF beta type factors. Over expression or mutation in dpp suppress germline stem cell differentiation. The Drosophila punt gene encodes a type II serine/threonine kinase TGF beta/Dpp (Decapentaplegic) receptor. Dpp actions are mediated by its receptor Punt and Saxophone. There are 5 down stream component in the dpp signaling cascade required to block the development of various organelles including salivary glands. These are Mothers against dpp (Mad), Medea (Med) and Schnurri (Shn). Punt signaling is also responsible for calcium gradient formation during D. melanogaster development. Punt gene encodes for a homolog of vertebrate type II receptor and Punt, like thick veins (Tkv) is essential for in vivo dpp dependent patterning process. No Dpp dependent signal processing is apparent in the absence of Punt or Tkv suggesting that both receptors act in concert to transduce Dpp signaling.

SWISS:
Q24468

Gene ID:
41772

Database links:

[Entrez Gene: 41772](#) Fruit fly (Drosophila melanogaster)

[SwissProt: Q24468](#) Fruit fly (Drosophila melanogaster)

[Unigene: 2889](#) Fruit fly (Drosophila melanogaster)

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.