PIAS3 Polyclonal Antibody

Catalog No: #42699

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

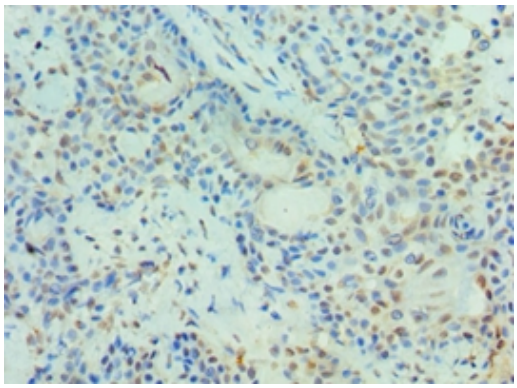
Description

Product Name	PIAS3 Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antigen Affinity Purified
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total PIAS3 polyclonal antibody.
Immunogen Type	protein
Immunogen Description	Recombinant human E3 SUMO-protein ligase PIAS3 protein (399-628aa)
Target Name	PIAS3
Other Names	Protein inhibitor of activated STAT protein 3, PIAS3
Accession No.	Swiss-Prot#: Q9Y6X2
Uniprot	Q9Y6X2
GeneID	10401;
Concentration	1.0mg/mL
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage	Store at -20°C

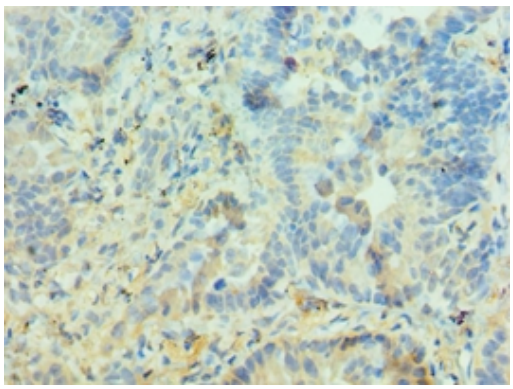
Application Details

Immunohistochemistry: 1:20 - 1:200

Images



Immunohistochemical analysis of paraffin-embedded human breast cancer using #42699 at dilution of 1:100.



Immunohistochemical analysis of paraffin-embedded human lung cancer using #42699 at dilution of 1:100.

Background

Functions as an E3-type small ubiquitin-like modifier (SUMO) ligase, stabilizing the interaction between UBE2I and the substrate, and as a SUMO-tethering factor. Plays a crucial role as a transcriptional coregulation in various cellular pathways, including the STAT pathway and the steroid hormone signaling pathway. Involved in regulating STAT3 signaling via inhibiting STAT3 DNA-binding and suppressing cell growth. Enhances the sumoylation of MTA1 and may participate in its paralog-selective sumoylation.

References

[1]"SUMOylation and SUMO-interacting motif (SIM) of metastasis tumor antigen 1 (MTA1) synergistically regulate its transcriptional repressor function."Cong L., Pakala S.B., Ohshiro K., Li D.Q., Kumar R.J. Biol. Chem. 286:43793-43808(2011). [2]"Repression of the transactivating capacity of the oncoprotein PLAG1 by SUMOylation." Van Dyck F., Delvaux E.L.D., Van de Ven W.J.M., Chavez M.V.J. Biol. Chem. 279:36121-36131(2004). [3]"ATBF1 enhances the suppression of STAT3 signaling by interaction with PIAS3." Nojiri S., Joh T., Miura Y., Sakata N., Nomura T., Nakao H., Sobue S., Ohara H., Asai K., Ito M.Biochem. Biophys. Res. Commun. 314:97-103(2004).

Note: This product is for in vitro research use only