

**Total PIAS 3 Cell-Based Colorimetric ELISA Kit****Catalog No :** KA3412C**Reactivity :** Human,Mouse,Rat**Applications :** ELISA**Gene Name :** PIAS3**Human Gene Id :** 10401**Human Swiss Prot No :** Q9Y6X2**Mouse Swiss Prot No :** O54714**Rat Swiss Prot No :** O70260**Storage Stability :** 4°C/6 months**Detection Method :** Colorimetric

**Background :** domain:The LXXLL motif is a transcriptional coregulator signature.,function: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. The effects of this transcriptional coregulation, transactivation or silencing, may vary depending upon the biological context.,induction:By dihydrotestosterone in prostate cancer cells.,pathway:Protein modification; protein sumoylation.,PTM:Sumoylated.,similarity:Belongs to the PIAS family.,similarity:Contains 1 SAP domain.,similarity:Contains 1 SP-RING-type zinc finger.,subunit:Bounds SUMO1 and UBE2I. Interacts with AR, GFI1, HMGA2, IRF1, MITF, NCOA2, as well as with STAT3, after treatment with IL6, CNTF or OSM and with STAT5, after PRL stimulation (By similarity). Interacts with PLAG1.,tissue specificity:Widely expressed.,

**Function :** transcription, proteolysis, macromolecule catabolic process, response to endogenous stimulus, response to hormone stimulus, response to organic substance, positive regulation of macromolecule metabolic process, protein sumoylation,modification-dependent protein catabolic process, protein catabolic process, regulation of protein modification process,positive regulation of protein

modification process, regulation of cellular protein metabolic process, positive regulation of cellular protein metabolic process, protein modification by small protein conjugation, regulation of protein sumoylation, positive regulation of protein sumoylation, modification-dependent macromolecule catabolic process, cellular protein catabolic process, cellular macromolecule catabolic process, regulation of transcription, positive regulation of protein metabolic process, proteolysis involved in cellular protein cata

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