

Duo Polyclonal Antibody

Catalog No :	YT1421
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	Duo
Gene Name :	KALRN
Protein Name :	Kalirin
Human Gene Id :	8997
Human Swiss Prot No :	O60229
Mouse Gene Id :	545156
Mouse Swiss Prot No :	A2CG49
Rat Gene Id :	84009
Rat Swiss Prot No :	P97924
Immunogen :	Synthesized peptide derived from Duo . at AA range: 810-890
Specificity :	Duo Polyclonal Antibody detects endogenous levels of Duo protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:20000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 340kD

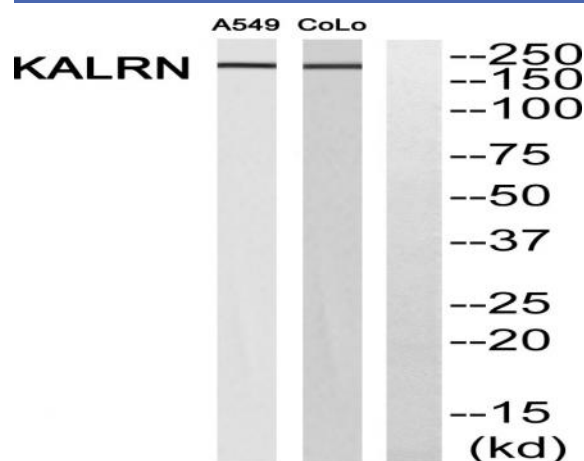
Background : Huntington's disease (HD), a neurodegenerative disorder characterized by loss of striatal neurons, is caused by an expansion of a polyglutamine tract in the HD protein huntingtin. This gene encodes a protein that interacts with the huntingtin-associated protein 1, which is a huntingtin binding protein that may function in vesicle trafficking. [provided by RefSeq, Apr 2016],

Function : catalytic activity:ATP + a protein = ADP + a phosphoprotein.,cofactor:Magnesium.,disease:Genetic variation in KALRN is associated with susceptibility to coronary heart disease type 5 (CHDS5) [MIM:608901]. CHD is the leading cause of death and disability worldwide. CHD is multifactorial disease with a strong genetic component. Classic epidemiologic studies have revealed many risk factors for CHD, including age, sex, hypertension, dyslipidemia, diabetes mellitus, smoking, and physical inactivity.,domain:The two GEF domains catalyze nucleotide exchange for RAC1 and RhoA which are bound by DH1 and DH2 respectively. The two GEF domains appear to play differing roles in neuronal development and axonal outgrowth. SH3 1 binds to the first GEF domain inhibiting GEF activity only when in the presence of a PXXP peptide, suggesting that the SH3 domain/peptide interaction mediates binding to GEF1. CR

Subcellular Location : Cytoplasm . Cytoplasm, cytoskeleton . Associated with the cytoskeleton.

Expression : Isoform 2 is brain specific. Highly expressed in cerebral cortex, putamen, amygdala, hippocampus and caudate nucleus. Weakly expressed in brain stem and cerebellum. Isoform 4 is expressed in skeletal muscle.

Products Images



Western blot analysis of KALRN Antibody. The lane on the right is blocked with the KALRN peptide.