

## Product datasheet for **TA349156**

### ARHI (DIRAS3) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1 - 2 ug/mL
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	DIRAS3 antibody was raised against an 18 amino acid peptide near the carboxy terminus of human DIRAS3.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	DIRAS3 antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	Predicted: 25 kDa; Observed: 24 kDa
Gene Name:	DIRAS family GTPase 3
Database Link:	<a href="#">NP_004666</a> <a href="#">Entrez Gene 9077 Human</a> <a href="#">O95661</a>



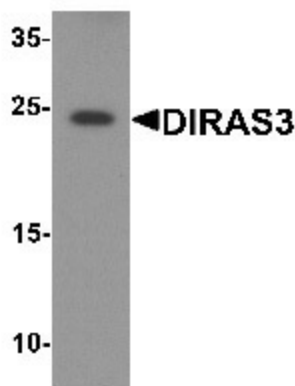
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**Background:**

DIRAS3 is a member of the ras superfamily, and is expressed in normal ovarian and breast epithelial cells, but not in ovarian and breast cancers. It is an imprinted gene, with mono-allelic expression of the paternal allele, which is associated with growth suppression and down-regulation of cyclin D1 promoter activity and induction of p21 (WAF/CIP1). Thus, this gene appears to be a putative tumor suppressor gene whose function is abrogated in ovarian and breast cancers (1). DIRAS3 has been shown to induce autophagy in human ovarian cancer cells by blocking PI3K signaling, inhibiting the mammalian target of rapamycin (TOR), upregulating ATG4, and colocalizing with LC3 in autophagosomes (2). DIRAS also interacts with C-RAF and downregulates mitogen-activated protein kinase kinases (MEK) to restrict cell migration (3).

**Synonyms:**

CACNA1HB; Cav3.2; ECA6; EIG6; HALD4

**Product images:**

Western blot analysis of DIRAS3 in human testis tissue lysate with DIRAS3 antibody at 1 ug/mL.