

## Product datasheet for **TA319371**

### Hif3a Rabbit Polyclonal Antibody

#### Product data:

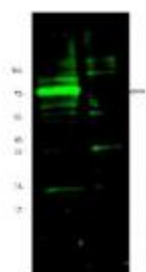
Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:14,000 - 1:80,000, WB: 1:1,000 - 1:8,000
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to aa 581-592 of mouse Hif3 a (Hypoxia Inducible Factor).
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	hypoxia inducible factor 3, alpha subunit
Database Link:	<a href="#">NP_058564</a> <a href="#">Entrez Gene 53417 Mouse</a> <a href="#">Q0VBL6</a>
Synonyms:	bHLHe17; HIF-3A; HIF-3A2; HIF-3A4; IPAS; MOP7; PASD7



[View online »](#)

**Note:** One of the most important factors in the cellular response to hypoxia is hypoxia-inducible factor (HIF), which transcriptionally activates genes encoding proteins that mediate adaptive responses to reduced oxygen availability. HIF is a heterodimer consisting of one of three subunits (HIF1- $\alpha$ , HIF2- $\alpha$ , or HIF3- $\alpha$ ) bound to the aryl hydrocarbon receptor nuclear translocator (ARNT) that is also known as HIF1- $\beta$ . HIF- $\alpha$  is a member of the basic helix-loop-helix (bHLH) superfamily, in which the HLH domain mediates subunit dimerization while the basic domain binds to DNA. HIF target genes play critical roles in metabolism, angiogenesis, cell proliferation, and cell survival; in fact, HIF3- $\alpha$  may be a marker for tumor growth and angiogenesis. Examples of HIF target genes include VEGF, glucose transporter 1 (GLUT1), and EPO. HIF binds to the hypoxia-responsive

### Product images:



WB using Anti-Hif3A antibody shows detection of a band ~72 kDa corresponding to mouse Hif3A (arrowhead). Approximately 10  $\mu$ g of a CoCl treated 3T3 cell lysate (lane 1) and control 3T3 cell lysate (lane 2) were separated by 4-20% SDS-PAGE and transferred onto nitrocellulose. Treatment of exponentially growing 3T3 cells with 130  $\mu$ M CoCl for 6 h at 37°C effectively mimics hypoxia. Primary antibody was diluted to 1:1,600. IRDye™800 conjugated Gt-a-Rabbit IgG [H&L] MX was used at 1:10000.