

Catalog Number:	NB100-2287SS
Background:	Hypoxia-inducible factor (HIF) is one of the most important factors in the cellular response to hypoxia, transcriptionally activating 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. HIF target genes play critical roles in metabolism, angiogenesis, cell proliferation and cell survival. HIF3 alpha protein is one of several alpha/beta-subunit heterodimeric transcription factors that regulate many adaptive responses to low oxygen tension (hypoxia). The alpha 3 subunit lacks the transactivation domain found in factors containing either the alpha 1 or alpha 2 subunits. HIF3 alpha may be a marker for tumor growth and angiogenesis.
Alternate Names:	anti-HIF3 alpha antibody; anti-Hypoxia Inducible Factor 3 alpha antibody; anti-Hypoxia inducible factor three alpha antibody; anti-Inhibitory PAS domain protein antibody
Research Areas:	10,31,348,0
Immunogen:	Bacterially expressed human HIF-3 alpha (N-terminus).
Specificity:	This antibody is specific for HIF-3 alpha.
Species Reactivity:	Recognizes mouse HIF-3 alpha. Other species have not been tested.
Uses:	May be used in Western analysis where it recognizes a band at ~70 kDa representing HIF-3 alpha. Proteins tested were produced in a rabbit reticulocyte system (Promega's TnT). 10 microliters of a TnT reaction was tested, as this protein tends to be of higher concentration than in native tissue samples. We have not currently been able to detect this protein in tissue extracts. Not tested in any other application. The investigator should determine the optimal working dilution for a specific application. * Other applications have not been tested.
Dilutions:	Suggested working dilutions * Western Blot 1:100~1:200 * Investigator should determine optimal working dilutions.
Positive Controls:	Reticulocyte lysate
Packaging:	0.025 ml Affinity purified Rabbit antisera.
Concentration:	1 mg/ml
Buffer:	Tris-citrate/phosphate buffer, pH 7-8
Preservative:	0.1% sodium azide
Storage:	Store at 4C. Do not freeze.
General References:	1. Gu YZ, Moran SM, Hogenesch JB, Wartman L, Bradfield CA. Molecular characterization and chromosomal localization of a third alpha-class hypoxia inducible factor subunit, HIF3 alpha. <i>Gene Expr.</i> 1998;7(3):205-13.
Gene Id:	64344
Reference Sequence:	Q9Y2N7



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Image(s)