

## 兔抗 ARNT 多克隆抗体

中文名称: 兔抗 ARNT 多克隆抗体

英文名称: Anti-ARNT rabbit polyclonal antibody

别 名: ARNT; HIF-1beta; HIF1B; HIF1BETA; TANGO; bHLHe2

相关类别: 一抗

储 存: 冷冻(-20℃) 避光

宿 主: Rabbit

抗 原: ARNT

反应种属: Human, Mouse, Rat

标 记 物: Unconjugate

克隆类型: rabbit polyclonal

## 技术规格

**Background:** 

Hypoxia-inducible factor 1 (HIF1) is a heterodimeric transcription factor that plays a critical role in the ce llular response to hypoxia. The HIF1 complex consist s of two subunits, HIF- $1\alpha$  and HIF- $1\beta$ , which are basic helix-loop-helix proteins of the PAS (Per, ARNT, Sim) family. HIF1 regulates the transcription of a broad range of genes that facilitate responses to the hypoxic environment, including genes regulating angiogenesi s, erythropoiesis, cell cycle, metabolism and apoptosi s. The widely expressed HIF- $1\alpha$  is typically degraded r dly in normoxic cells by the ubiquitin/proteasomal p athway. Under normoxic conditions, HIF- $1\alpha$  is proline droxylated leading to a conformational change that promotes binding to the von Hippel Lindau protein



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	(VLH) E3 ligase complex; ubiquitination and proteaso
	mal degradation follows. Both hypoxic conditions an
	d chemical hydroxylase inhibitors (such as desferriox
	amine and cobalt) inhibit HIF-1 $lpha$ degradation and lead
	to its stabilization. In addition, HIF-1 $lpha$ can be induced
	in an oxygen-independent manner by various cytoki
	nes through the PI3K-AKT-mTOR pathway.HIF-1 $\beta$ is all
	known as AhR nuclear translocator (ARNT) due to it
	s ability to partner with the aryl hydrocarbon recept
	or (AhR) to form a heterodimeric transcription factor
	complex. Together with AhR, HIF-1β plays an importa
	role in xenobiotics metabolism. In addition, a chrom
	osomal translocation leading to a TEL-ARNT fusion p
	rotein is associated with acute myeloblastic leukemia
	. Studies also found that ARNT/HIF-1 $\beta$ expression leve
	decrease significantly in pancreatic islets from patien
	ts with type 2 diabetes, suggesting that HIF-1β plays
	an important role in pancreatic β-cell function.
Applications:	WB
Name of antibody:	ARNT
Immunogen:	Fusion protein of human ARNT
Full name:	aryl hydrocarbon receptor nuclear translocator
Synonyms:	ARNT; HIF-1beta; HIF1B; HIF1BETA; TANGO; bHLHe2
SwissProt:	P27540
WB Predicted band size:	87 kDa
WB Positive control:	Hepg2, MCF7, NIH3T3, U20S and Hela cells
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