

## 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 cellular response to hypoxia. The HIF1 complex consists 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 angiogenesis, erythropoiesis, cell cycle, metabolism and apoptosis. The widely expressed HIF-1 $\alpha$  is typically degraded rapidly in normoxic cells by the ubiquitin/proteasomal pathway. Under normoxic conditions, HIF-1 $\alpha$  is proline

	<p>droxylated leading to a conformational change that promotes binding to the von Hippel Lindau protein (VHL) E3 ligase complex; ubiquitination and proteasomal degradation follows. Both hypoxic conditions and chemical hydroxylase inhibitors (such as desferrioxamine and cobalt) inhibit HIF-1<math>\alpha</math> degradation and lead to its stabilization. In addition, HIF-1<math>\alpha</math> can be induced in an oxygen-independent manner by various cytokines through the PI3K-AKT-mTOR pathway. HIF-1<math>\beta</math> is also known as AhR nuclear translocator (ARNT) due to its ability to partner with the aryl hydrocarbon receptor (AhR) to form a heterodimeric transcription factor complex. Together with AhR, HIF-1<math>\beta</math> plays an important role in xenobiotics metabolism. In addition, a chromosomal translocation leading to a TEL-ARNT fusion protein is associated with acute myeloblastic leukemia. Studies also found that ARNT/HIF-1<math>\beta</math> expression levels decrease significantly in pancreatic islets from patients with type 2 diabetes, suggesting that HIF-1<math>\beta</math> plays an important role in pancreatic <math>\beta</math>-cell function.</p>
<b>Applications:</b>	WB
<b>Name of antibody:</b>	ARNT
<b>Immunogen:</b>	Fusion protein of human ARNT
<b>Full name:</b>	aryl hydrocarbon receptor nuclear translocator
<b>Synonyms :</b>	ARNT; HIF-1beta; HIF1B; HIF1BETA; TANGO; bHLHe2
<b>SwissProt:</b>	P27540
<b>WB Predicted band size:</b>	87 kDa
<b>WB Positive control:</b>	Hepg2, MCF7, NIH3T3, U2OS and Hela cells
<b>WB Recommended dilution:</b>	500-2000

