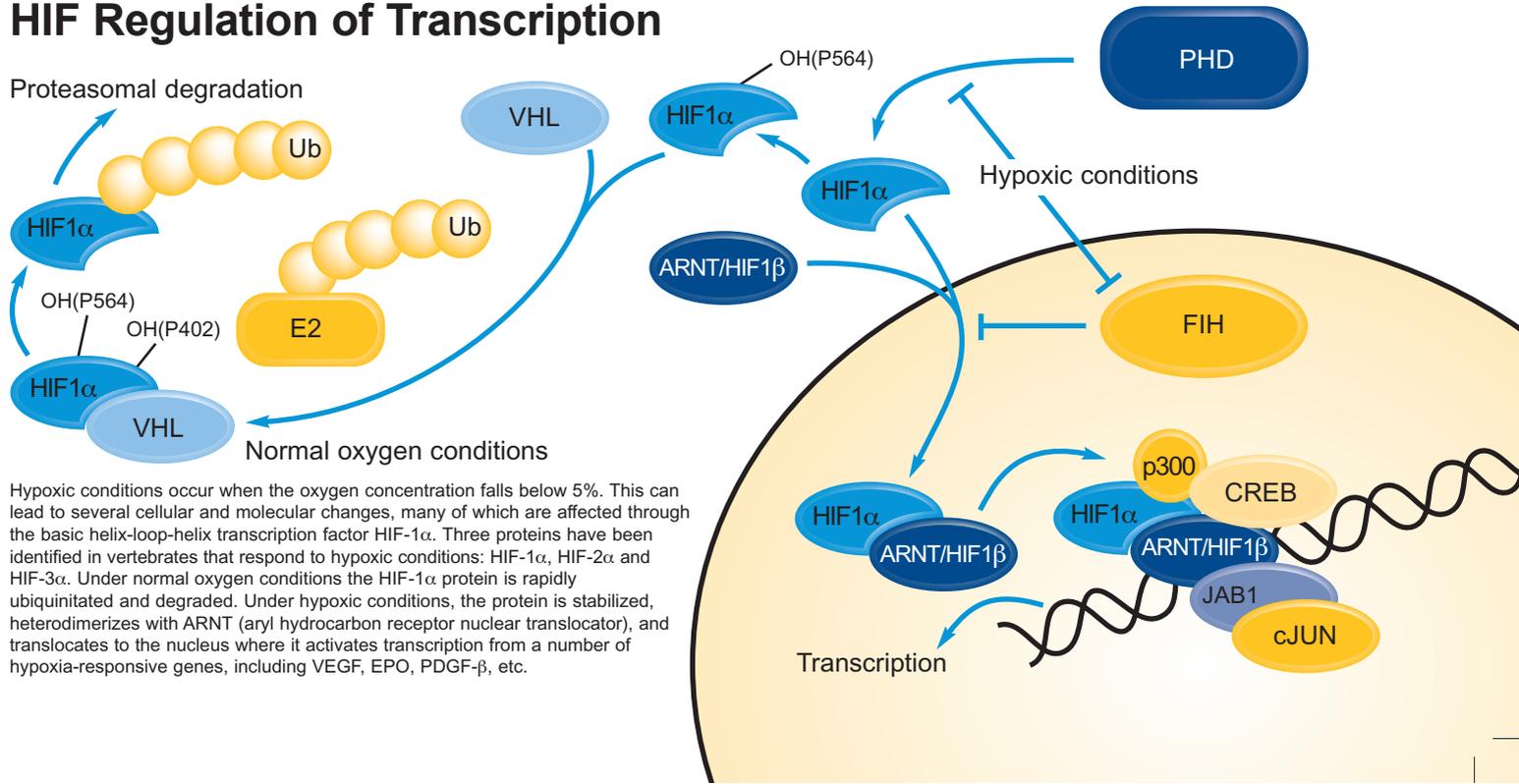
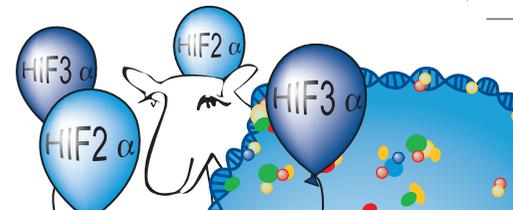


HIF Regulation of Transcription



Hypoxic conditions occur when the oxygen concentration falls below 5%. This can lead to several cellular and molecular changes, many of which are affected through the basic helix-loop-helix transcription factor HIF-1 α . Three proteins have been identified in vertebrates that respond to hypoxic conditions: HIF-1 α , HIF-2 α and HIF-3 α . Under normal oxygen conditions the HIF-1 α protein is rapidly ubiquitinated and degraded. Under hypoxic conditions, the protein is stabilized, heterodimerizes with ARNT (aryl hydrocarbon receptor nuclear translocator), and translocates to the nucleus where it activates transcription from a number of hypoxia-responsive genes, including VEGF, EPO, PDGF- β , etc.



Antibody	Application	Datasheet www.abcam.com
FIH	WB	ab12289
HIF1 α	WB, IHC-P, IP	ab1
HIF1 α	IF, IHC-P, IP	ab463
HIF1 α	GSA, IF	ab817
HIF1 α	WB, CHIP	ab2185
HIF1 α	GSA, IF	ab3187
HIF1 α	WB	ab6274
HIF1 α	WB	ab6489
HIF1 α	WB, IHC-Fr, IHC-P	ab8366
HIF1 α	WB, GSA, IF, IP	ab16066
HIF1 α	WB	ab16535
HIF1 α	WB, IHC-P, IP	ab19382
HIF1 β /ARNT	WB, IP	ab2
HIF1 β /ARNT	WB	ab465
HIF1 β /ARNT	WB, IF	ab2771

Antibody	Application	Datasheet www.abcam.com
HIF1 β /ARNT	WB	ab5624
HIF1 β /ARNT	WB, IHC, IP	ab14829
HIF2 α	WB	ab199
HIF2 α	WB, IHC-P	ab8365
HIF2 α	WB	ab13704
HIF2 α	WB	ab199
HIF2 α	WB, IHC-P	ab8365
HIF2 α	WB	ab13704
HIF3 α	WB	ab10134
PHD1	WB	ab5156
PHD2	WB	ab4561
PHD2	WB	ab10930
PHD3	WB	ab4562
PHD3	WB	ab10880
PHD4	WB	ab10932