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Product datasheet for TA392655

Aryl hydrocarbon Receptor (AHR) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:500~1:1000 IHC: 1:50~1:200
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic phosphopeptide derived from human AhR around the phosphorylation site of Serine 36.
Specificity:	p-AhR (S36) polyclonal antibody detects endogenous levels of AhR only when phosphorylated at Ser36.
Formulation:	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Concentration:	1mg/ml
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Stability:	1 year
Predicted Protein Size:	~ 94 kDa
Gene Name:	aryl hydrocarbon receptor
Database Link:	Entrez Gene 196 Human P35869

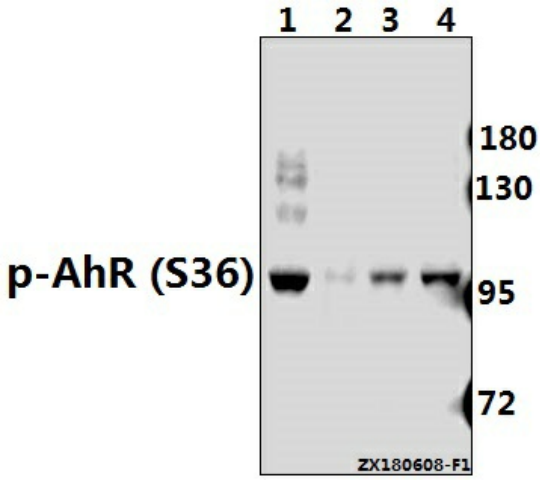
View online »

Background: The Aryl Hydrocarbon Receptor (AHR), also known as the dioxin receptor, is a ligand-activated helix/loop/helix transcription factor found in a variety of vertebrate species. The known ligands for AHR are foreign planar aromatic compounds, such as polycyclic aromatic compounds and halogenated aromatic compounds such as 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD).Unlike the steroid/thyroid hormone receptors, there is no known physiological ligand for the AH Receptor. Studies indicate that in non-ligand activated cells, AHR is found complexed with HSP90 predominantly in the cytoplasm. Upon binding to an agonist, the ligand-activated AHR is believed to transform to a nuclear, DNA binding form. This transformation process appears to involve dissociation of HSP90 from AHR followed by formation of a heterodimer with AHR nuclear translocator protein (Arnt). The AHR-ligand complex appears to initiate gene transcription of cytochrome P450 1A1.

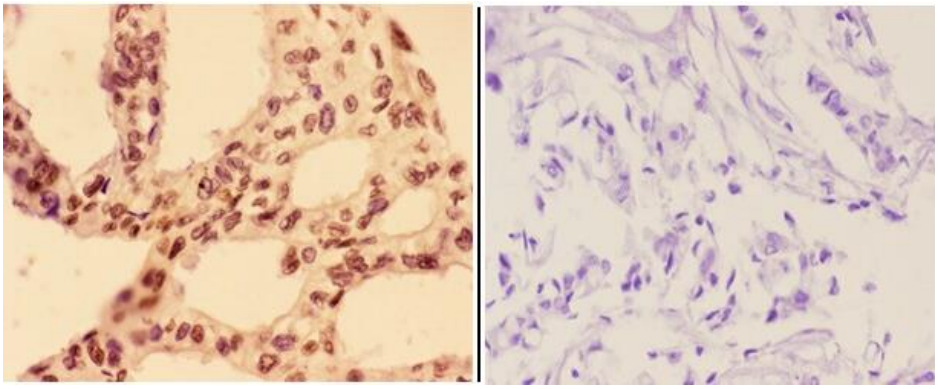
Synonyms: AHR; AhR; Ah receptor; Aryl hydrocarbon receptor; BHLHE76; bHLHe76; Class E basic helix-loop-helix protein 76

Note: For research use only, not for use in diagnostic procedure.

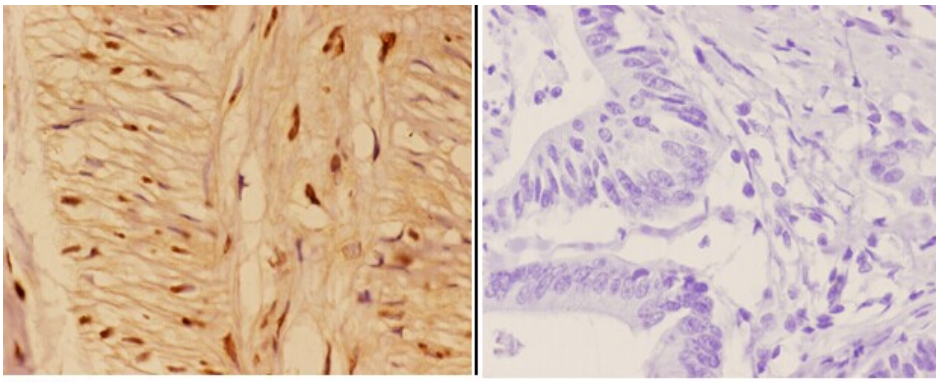
Product images:



Western blot (WB) analysis of p-AhR (S36) at 1:2000 dilution Lane1:MCF-7 whole cell lysate(40ug) Lane2:The Heart tissue lysate of Mouse(40ug) Lane3:The Heart tissue lysate of Rat(40ug) Lane4:HepG2 whole cell lysate(20ug)



Immunohistochemistry (IHC) analyzes of AhR (phospho-S36) pAb in paraffin-embedded human breast carcinoma tissue at 1:50,showing cytoplasmic and nucleus staining.Negative control (the right)Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.



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Immunohistochemistry (IHC) analyzes of AhR (phospho-S36) pAb in paraffin-embedded human colon carcinoma tissue at 1:50,showing cytoplasmic and nucleus staining.Negative control (the right)Using PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG-biotin followed by avidin-peroxidase.