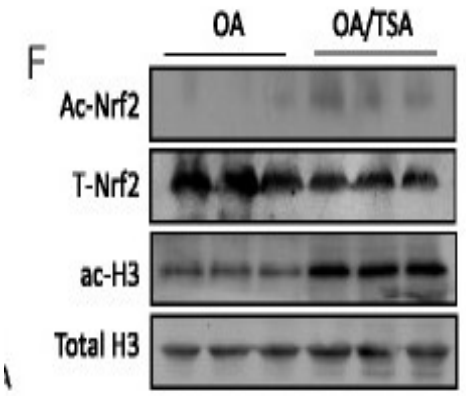
Best Tools for immunology Research

Nrf2 (Acetyl Lys599) Polyclonal Antibody

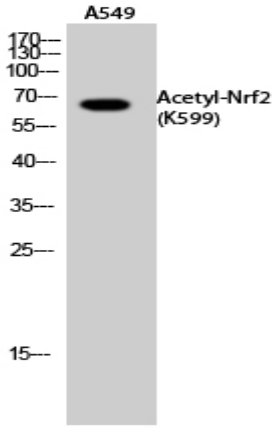
Catalog No :	YK0063
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	Nrf2
Fields :	>>Protein processing in endoplasmic reticulum;>>Parkinson disease;>>Pathways in cancer;>>Chemical carcinogenesis - reactive oxygen species;>>Hepatocellular carcinoma;>>Lipid and atherosclerosis;>>Fluid shear stress and atherosclerosis
Gene Name :	NFE2L2
Protein Name :	Nuclear factor erythroid 2-related factor 2
Human Gene Id :	4780
Human Swiss Prot No :	Q16236
Mouse Gene Id :	18024
Mouse Swiss Prot No :	Q60795
Rat Gene Id :	83619
Rat Swiss Prot No :	O54968
Immunogen :	Synthesized acetyl-peptide derived from the C-terminal region of human Nrf2 around the acetylation site of K599.
Specificity :	Acetyl-Nrf2 (K599) Polyclonal Antibody detects endogenous levels of Nrf2 protein only when acetylation at K599.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG

Dilution :	WB 1:500 - 1:2000. IHC: 1:100-300 ELISA: 1:10000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	75-100kD
Background :	This gene encodes a transcription factor which is a member of a small family of basic leucine zipper (bZIP) proteins. The encoded transcription factor regulates genes which contain antioxidant response elements (ARE) in their promoters; many of these genes encode proteins involved in response to injury and inflammation which includes the production of free radicals. Multiple transcript variants encoding different isoforms have been characterized for this gene. [provided by RefSeq, Sep 2015],
Function :	domain:Acidic activation domain in the N-terminus, and DNA binding domain in the C-terminus.,function:Transcription activator that binds to antioxidant response (ARE) elements in the promoter regions of target genes. Important for the coordinated up-regulation of genes in response to oxidative stress. May be involved in the transcriptional activation of genes of the beta-globin cluster by mediating enhancer activity of hypersensitive site 2 of the beta-globin locus control region.,PTM:Phosphorylation of Ser-40 by PKC in response to oxidative stress dissociates NFE2L2 from its cytoplasmic inhibitor KEAP1, promoting its translocation into the nucleus.,similarity:Belongs to the bZIP family.,similarity:Belongs to the bZIP family. CNC subfamily.,similarity:Contains 1 bZIP domain.,subcellular location:Cytosolic under unstressed conditions, translocates into the nucleus upon induction by electr
Subcellular Location :	Cytoplasm, cytosol . Nucleus . Cytosolic under unstressed conditions: ubiquitinated and degraded by the BCR(KEAP1) E3 ubiquitin ligase complex (PubMed:15601839, PubMed:21196497). Translocates into the nucleus upon induction by electrophilic agents that inactivate the BCR(KEAP1) E3 ubiquitin ligase complex (PubMed:21196497). .
Expression :	Widely expressed. Highest expression in adult muscle, kidney, lung, liver and in fetal muscle.

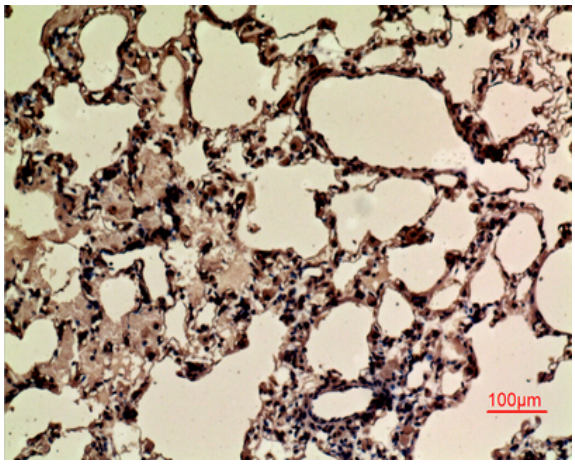
Products Images



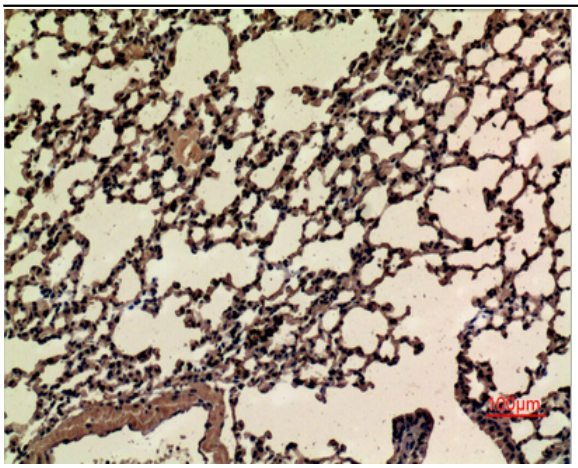
Cai, Dawei, et al. "Histone deacetylase inhibition activates Nrf2 and protects against osteoarthritis." Arthritis research & therapy 17.1 (2015): 269.



Western Blot analysis of A549 cells using Acetyl-Nrf2 (K599) Polyclonal Antibody. Antibody was diluted at 1:1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded rat-lung, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded mouse-lung, antibody was diluted at 1:100