**Nrf2 Ab**

<table>
<thead>
<tr>
<th>Cat. #: AF7006</th>
<th>Concn.: 1mg/ml</th>
<th>Mol.Wt.: 68kDa</th>
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<tbody>
<tr>
<td>Size: 50ul,100ul,200ul</td>
<td>Source: Rabbit</td>
<td>Clonality: Polyclonal</td>
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**Application:**
WB 1:500-1:2000  IHC 1:50-1:200  IF/ICC 1:100-1:500

**Reactivity:**
Human, Mouse, Rat

**Purification:**
The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

**Specificity:**
Nrf2 Ab detects endogenous levels of total Nrf2.

**Immunogen:**
A synthesized peptide derived from human Nrf2.

**Uniprot:**
Q16236

**Description:**
NRF2 a transcription factor that regulates basal expression and antioxidant induction of a transcription factor for NAD(P)H:quinone oxidoreductase-1 (NQO1) and other detoxifying genes. Targeted for proteasomal degradation by INrf2.

**Subcellular Location:**
Cytoplasm > cytosol. Nucleus. Cytosolic under unstressed conditions, translocates into the nucleus upon induction by electrophilic agents.

**Tissue Specificity:**
Widely expressed. Highest expression in adult muscle, kidney, lung, liver and in fetal muscle.

**Similarity:**
Acidic activation domain in the N-terminus, and DNA binding domain in the C-terminus. Belongs to the bZIP family. CNC subfamily.

**Storage Condition and Buffer:**
Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20°C. Stable for 12 months from date of receipt.

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Western blot analysis of Nrf2 expression in HuvEc whole cell lysates. The lane on the left is treated with the antigen-specific peptide.
AF7006 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.

AF7006 staining HuvEc by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.

AF7006 staining A549 cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37°C. The primary Ab was diluted 1/400 and incubated with the sample for 1 hour at 37°C. A Alexa Fluor® 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary Ab.

**IMPORTANT:** For western blot, incubate membrane with diluted primary Ab in 5% w/v milk, 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.