[pThr^{180}/Tyr^{182}]p38 ELISA kit

The [pThr^{180}/Tyr^{182}]p38 ELISA kit is a colorimetric immunometric enzyme immunoassay kit

The [pThr^{180}/Tyr^{182}]p38 EIA kit is a colorimetric immunometric enzyme immunoassay kit with results in 3 hours. Absorbance is read at 450 nm. Use less precious sample per test compared to Western blot with higher throughput sample analysis; measure up to 40 samples in duplicate per kit.

Six proteins of the p38 subfamily of MAP kinases have been identified to date, including: p38α (SAPK2, CSBP) and its splice variant Mxi; p38β and β2; p38γ (ERK6, SAPK3); and p38δ (SAPK4). p38 MAP kinases contain a conserved TGY motif in their activation loop and are activated in response to cytokines, hormones, GPCRs, and osmotic and heat shock to mediate primarily pro-apoptotic and pro-inflammatory responses. MKK3, MKK4, and MKK6 are known to activate p38 family members with varying specificity. All four p38 isoforms are able to phosphorylate the activating transcription factor 2 (ATF2), and differentially activate numerous substrates including Mnk1/2, Msk, phospholipase A2, and the MAPKAP kinase-2 and -3. Activated MAPKAP kinase-2 subsequently phosphorylates the heat shock protein Hsp27, an F-actin binding protein involved in cytoskeletal maintenance.

Citations: 3 View Online »

Ordering Information

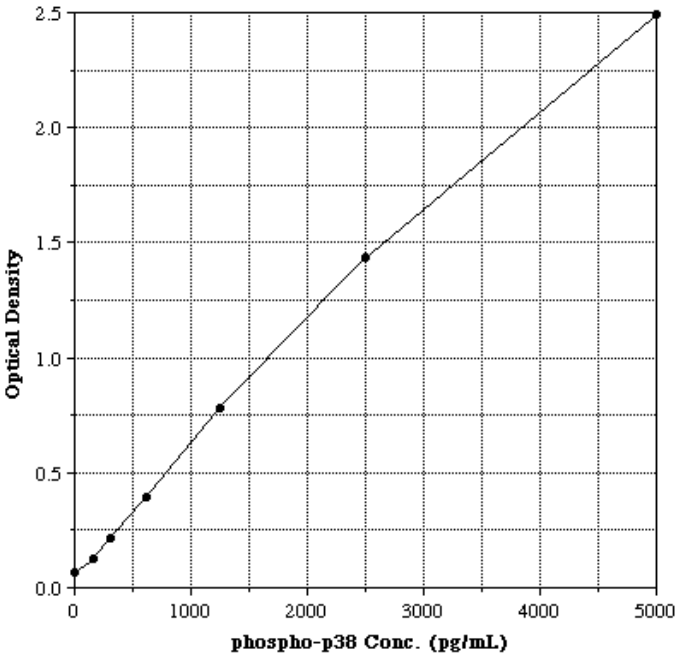
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ADI-900-101	96 wells

Manuals, SDS & CofA

View Online »

- Sensitive - use less precious sample per test compared to Western blot
- Higher throughput - test up to 40 samples in duplicate in just 3 hours
- Quantitative - obtain statistically signficant results and compare data between multiple experiments
- Ready-to-use - save time and reduce errors with pre-coated plates


Optical Density
2.5
2.0
1.5
1.0
0.5
0.0
0
1000
2000
3000
4000
5000
phospho-p38 Conc. (pg/mL)

Handling & Storage

Use/Stability	Store all components at 4°C, except standard at -20°C.
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	SAPK2, SAP kinase 2
Application	Colorimetric detection, ELISA
Application Notes	For the quantitative determination of [pThr^{180}/Tyr^{182}]p38 in cell lysates of human and mouse origin.
Assay Time	3 hours
Compatibility	This product is compatible with the **Absorbance 96 Plate Reader**.
Contents	Microtiter plate, Conjugate, Antibody, Assay buffer 4 concentrate, Wash buffer concentrate, Standard, TMB Substrate, RIPA Cell lysis buffer 2, Stop solution 2
Crossreactivity	Phospho p38 (100%) and <0.01%: non-phosphorylated p38, phospho Jnk, non-phosphorylated Jnk, AKT, non-phosphorylated Erk, phospho Erk
Sensitivity	52.1 pg/ml (range 156 – 5,000 pg/ml)
Species Reactivity	Human, Mouse
UniProt ID	Q16539 (human p38α), Q15759 (human p38β), P53778 (p38γ), O15264 (p38δ)
Wavelength	450 nm

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