

## Erk 1/2 (pThr188) pAb

Quality Control Certificate of Analysis Catalogue No.: A010-40AP Unit Size: 100 µg Lot No: A642223

**Background:** The extracellular-regulated kinases - Erk1 and Erk2 are widely expressed protein kinases which are activated by mitogenactivated protein kinase 1 and 2 (MEK1/2) via phosphorylation of the TEY motif in the activation loop (Lorenz et al., 2009). Erk1/2 may become autophosporylated at position Thr-188 and this is a marker of cardiac hypertrophy. Antibody A010-40AP recognises Erk2 and Erk2 phosphorylated at Thr-188.

Description: Lyophilised Rabbit polyclonal protein A affinity purified antibody (A010-40AP)

Immunogen: HPLC purified peptide LTEYVAT(PO<sub>3</sub>H<sub>2</sub>)RWYR-NH<sub>2</sub> conjugated to KLH using glutaraldehyde

Storage Instructions: Lyophilised antibody is stable at 4 °C when stored with desiccant. Reconstitute lyophilised powder in 100  $\mu$ l of 18 M $\Omega$  H<sub>2</sub>O for a 1mg/ml solution with stable buffering conditions. Aliquot and store frozen at -80 °C for 1 year. Avoid freeze - thaw cycles.

GFLTEYVA

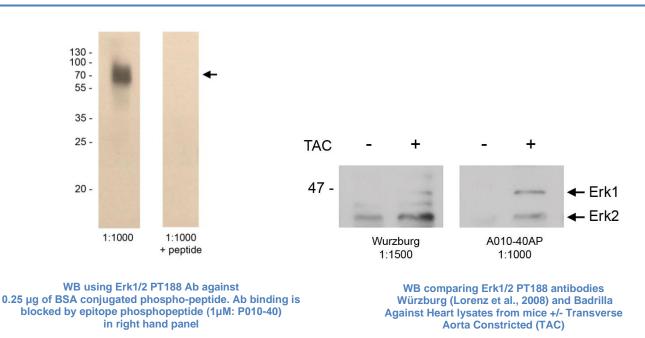
GFLTEYVA

H-ERK1.3

H-ERK2

Antibody Isotype: IgG.	Tested Applications: WB 1:1	000	PO <sub>3</sub> H <sub>2</sub> Specific
Antibody Purity: Protein A Affinity Purified		1,80	. <b>↓</b> 1,90
Specificity: Epitope peptide is identical in all isoforms of ERK1 (MA ERK2 (MAPK1)			Y V A T <mark>R</mark> WY <mark>R</mark> Y V A T <mark>R</mark> WY R A P Y V A T RWY R A P
Species Cross Reactivity: Peptide aligns with sequence from both M Human. Threonine 188 is number in relation to the mouse sequence of	ouse and H-ERK1.1	GFLTE	Y V A T RWY R A P Y V A T RWY R A P

Vial Constituents: Lyophilised A010-40AP Rabbit antibody (100 µg) in 0.1M Tris-citrate pH 7.4 with 20%v/v stabiliser solution



## Related Products: P010-40

## **Background References:**

- Lorenz, K., Schmitt, J. P., Schmitteckert, E. M., and Lohse, M. J. (2009) A new type of ERK1/2 autophosphorylation causes cardiac hypertrophy. *Nat Med* **15**, 75-83

- Vidal, M., Wieland, T., Lohse, M. J., and Lorenz, K. (2012) β-Adrenergic receptor stimulation causes cardiac hypertrophy via a Gβγ/Erkdependent pathway. *Cardiovasc Res* **96**, 255-264