

## 3864

## Phospho-FRS2-α (Tyr196) Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

## For Research Use Only. Not for Use in Diagnostic Procedures.

| Applications:                                   | Reactivity:<br>H M      | <b>Sensitivity:</b><br>Endogenous   | <b>MW (kDa):</b><br>85 | <b>Source/Isotype:</b><br>Rabbit | <b>UniProt ID:</b><br>#Q8WU20 | Entrez-Gene Id:<br>10818 |
|---|-------------------------|---|------------------------|----------------------------------|-------------------------------|--------------------------|
| Product Usage<br>Information                    |                         | <b>Application</b> Western Blotting   |                        |                                  | <b>Dilution</b><br>1:1000     |                          |
| Storage   |                         | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.  |                        |                                  |                               |                          |
| Specificity/Sensitivity                         |                         | Phospho-FRS2- $\alpha$ (Tyr196) Antibody detects endogenous levels of FRS2- $\alpha$ only when phosphorylated at tyrosine 196. The antibody may also detect a non-specific band at 65kDa.   |                        |                                  |                               |                          |
| Species predicte<br>based on 100% s<br>homology | ed to react<br>sequence | Rat   |                        |                                  |                               |                          |
| Source / Purification                           |                         | Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr196 of human FRS2-α. Antibodies are purified by protein A and peptide affinity chromatography.  |                        |                                  |                               |                          |
| Background                                      |                         | Fibroblast growth factor receptor substrate 2 (FRS2, also called Suc-associated neurotrophic factor-induced tyrosine-phosphorylated target or SNT) participates in the transmission of extracellular signals from the fibroblast growth factor receptor (FGFR). FGFR activation leads to tyrosine phosphorylation of FRS2 (1). Two FRS2 family members have been identified, FRS2- $\alpha$ (SNT1) and FRS2- $\beta$ (SNT2) (2), which are phosphorylated by these receptor tyrosine kinases (RTKs). Once phosphorylated, they recruit SH2 domain-containing proteins, including Grb2 and SHP-2 (3,4), mediating downstream signaling. Tyr436 is required for efficient SHP-2 recruitment (5), whereas Tyr196 functions as a docking site for Grb2-Sos complexes (6). |                        |                                  |                               |                          |
| Background References                           |                         | 1. Kouhara, H. et al. (1997) <i>Cell</i> 89, 693-702.<br>2. Ong, S. H. et al. (2000) <i>Mol. Cell. Biol.</i> 20, 979-989.<br>3. Kontaridis, M. I. et al. (2002) <i>Mol. Cell. Biol.</i> 22, 3875-3891.<br>4. Xu, H. and Goldfarb, M. (2001) <i>J. Biol. Chem.</i> 276, 13049-13056.<br>5. Hadari, Y. R. et al. (1998) <i>Mol. Cell. Biol.</i> 18, 3966-3973.<br>6. Kouhara, M. et al. (1997) <i>Cell</i> 89, 693-702.   |                        |                                  |                               |                          |
| Species Reactiv                                 | ity                     | Species reactivity is de  | etermined by testin    | g in at least one approve        | ed application (e.g.,         | western blot).           |
| Western Blot Buffer                             |                         | IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.  |                        |                                  |                               |                          |
| Applications Key                                |                         | W: Western Blotting   |                        |                                  |                               |                          |
| Cross-Reactivity Key                            |                         | H: Human M: Mouse   |                        |                                  |                               |                          |
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