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**[ Marker Primary Antibody ]**

# Rabbit Anti-OXSR1/AF647 Conjugated antibody

**Catalog Number: SL2927R-AF647**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | Anti-OXSR1/AF647 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human OXSR1. |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **Applications:** | IF=1:100-500<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | (predicted:Human,Mouse,Rat,Dog,Pig,Cow,Horse) |
| **Background:** | background: OXSR1 is a serine/threonine kinase which regulates downstream kinases in response to environmental stress such as osmotic stresses, notably sorbitol and, to a lesser extent, NaCl. OXSR1 phosphorylated thr84 within the N-terminal regulatory domain of PAK1. Replacement of thr84 with gln reduced activation of PAK1 by an active form of the small G protein CDC42, suggesting that phosphorylation by OXSR1 modulates the G protein sensitivity of PAK. OXSR1 interacts with chloride channel proteins SLC12A6 isoform 2, SLC12A1 and SLC12A2 but not with SLC12A4 and SLC12A7, possibly establishing sensor/signaling modules that initiate the cellular response to environmental stress. Binds to and phosphorylates RELL1, RELL2 AND RELT. OXSR1 may have a role in regulating the actin cytoskeleton.<br>**Subunit:** "Binds to and phosphorylates PAK1. Interacts with chloride channel proteins SLC12A6 isoform 2, SLC12A1 and SLC12A2 but not with SLC12A4 and SLC12A7, possibly establishing sensor/signaling modules that initiate the cellular response to environmental stress. Binds to and phosphorylates RELL1, |

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| | RELL2 AND RELT.<br>**Subcellular Location:** Cytoplasm.<br>**Tissue Specificity:** Ubiquitously expressed in all tissue examined.<br>**Similarity:** Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily.<br>Contains 1 protein kinase domain.<br>**Database links:**<br>**Entrez Gene:** 9943 Human<br>**Entrez Gene:** 108737 Mouse<br>**Entrez Gene:** 316064 Rat<br>Omim: 604046 Human<br>**SwissProt:** O95747 Human<br>**SwissProt:** Q6P9R2 Mouse<br>**SwissProt:** Q863I2 Pig<br>**Unigene:** 475970 Human<br>**Unigene:** 293565 Mouse<br>Important<br>**Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |

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