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# Product datasheet for TA364378

## TAC1 Guinea Pig Polyclonal Antibody

## Product data:

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|---|---|
| **Product Type:** | Primary Antibodies |
| **Applications:** | ELISA |
| **Recommended Dilution:** | This antibody has been tested and validated in ELISA against Substance P. Other applications like immunohistochemistry (IHC), FACS or Western Blot may work as well. Optimal dilutions should be determined by the end user. |
| **Reactivity:** | Human, Mammalian |
| **Host:** | Guinea Pig |
| **Clonality:** | Polyclonal |
| **Immunogen:** | Synthetic peptide H-Arg-Pro-Lys-Pro-Gln-Gln-Phe-Phe-Gly-Leu-Met-NH2 coupled to carrier protein. |
| **Formulation:** | This polyclonal antibody is supplied as a lyophilized powder. The powder should be rehydrated with 50ml of RIA buffer. Upon reconstitution to 50ml total volume, the solution contains 0.1M sodium phosphate buffer (pH 7.4), 0.05M NaCl, 0.1% BSA, 0.01% NaN3, and 0.1% Triton X-100. Store at 4° - 8°C. This should ensure antibody stability for approximately one month. |
| **Concentration:** | N/A |
| **Conjugation:** | Unconjugated |
| **Storage:** | Original vial: at least one year at 4° - 8°C from date of delivery. Minimize repeated thawing and freezing of the antiserum by freezing aliquots at -20°C or below. |
| **Gene Name:** | tachykinin precursor 1 |
| **Database Link:** | Entrez Gene 6863 Human<br>P20366 |
| **Background:** | Substance P is an undecapeptide resulting from the cleavage of Protachykinin-1 (UniProt P20366) into several biologically active peptides. It is mainly secreted by neurons and is involved in biological processes like nociception and inflammation. Substance P mediates interactions between neurons and immune cells, with nerve- derived substance P modulating immune cell proliferation and cytokine production. This antibody was generated by immunization of guinea pigs with Substance P coupled to a carrier protein. |
| **Synonyms:** | NK2; NKA; NKNA; NPK; OTTHUMP00000204986; PPT; TAC2 |

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