

Product datasheet for **TA397105S**

Pol Chicken Polyclonal Antibody

Product data:

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| Product Type: | Primary Antibodies |
| Applications: | ELISA |
| Recommended Dilution: | ELISA: 1:20,000-1:100,000 |
| Reactivity: | Mouse |
| Host: | Chicken |
| Clonality: | Polyclonal |
| Immunogen: | This IgY fraction antibody was prepared from eggs of chickens laid after repeated immunizations with three synthetic peptides conjugated to keyhole limpet hemocyanin (KLH). The peptides correspond to regions within the endonuclease domain of L1/ORF2 protein. |
| Specificity: | Anti-L1/ORF2 Antibody is directed against three regions within the endonuclease domain of L1 ORF2 protein. This product is an IgY fraction antibody purified from monospecific chicken egg yolks by a multi-step process which includes selective precipitation and salt fractionation followed by extensive dialysis against the buffer stated above. Reactivity occurs against mouse L1/ORF2 protein and is useful in determining its presence in various assays. A BLAST analysis shows reactivity with L1/ORF2 proteins from mouse sources based on 100% homology with the immunizing sequences. Cross reactivity against L1/ORF2 from other sources is unknown. |
| Formulation: | 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 |
| Concentration: | 1.21 mg/mL - lot specific |
| Conjugation: | Unconjugated |
| Storage: | Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing. |
| Stability: | Expiration date is one (1) year from date of receipt. |
| Database Link: | P11369 |



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- Background:** L1/ORF2 is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. The L1 (LINE-1), or Long INterspersed Element , retrotransposon ORF2 is the most common open reading frame in the human genome, present in various forms in many thousands of copies. This large family of proteins includes magnesium dependent endonucleases and a large number of phosphatases involved in intracellular signaling. Both intact ORF1 and ORF2 are absolutely required for autonomous retro-transposition. ORF2 encodes an endonuclease, reverse transcriptase, and zinc knuckle domains. The expression of ORF2 appears to be tightly regulated except in germ line tissues, embryonic tissues, and certain cancers including teratomas, testicular cancers, and leukemias. This antibody is intended for use in studying control of L1 retrotransposons.
- Synonyms:** chicken anti-L1/ORF2 Antibody, chicken anti-L1-ORF2 Antibody, L1 (LINE-1), Long INterspersed Element , retrotransposon ORF2
- Note:** L1/ORF2 Antibody has been tested for use in ELISA. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 149.5 kDa in size corresponding to L1 protein by western blotting in the appropriate cell lysate or extract.