

**THE SURVEY OF ANTIBODIES AGAINST RABIES VIRUS IN
DOGS AT THE SLAUGHTERHOUSE, DOGS WITH/WITHOUT
RABIES VACCINATION, WILD ANIMALS AND
EVALUATING THE IMMUNE RESPONSE AFTER
VACCINATING RABISIN®MONO (MERIAL) IN SOME
PROVINCES IN THE MEKONG DELTA**

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Summary**

The survey of antibodies against Rabies virus in dogs at the slaughterhouse, dogs with/without Rabies vaccination, wild animals and evaluating the immune response after vaccinating Rabisin®mono (Merial) in some provinces in the Mekong Delta by using indirect Elisa method with SERELISA®Rabies Ab Mono Indirect kit, France. The results indicated that dogs at the slaughterhouse in Can Tho city harbored the antibodies against Rabies virus with 14.13%. Dogs without Rabies vaccination got the antibodies against Rabies virus with 5.94% in Ben Tre province. In Kien Giang province, there was the prevalence of antibodies against Rabies in bats (10%); however, there was not in chipmunks and mice. In Kien Giang province, dogs after periodic vaccination with Rabisin®mono (Merial) got the antibody protection rate with 79.08%, and the average content of antibodies was 3,454 IU/ml. The region, ages, breeds, sample collecting time after Rabies vaccination affected on the capacity of antibodies' generation. Dogs raised in the urban (87.22%) harbored the protection rate higher than dogs raised in suburban (73.96%). Dogs under 1 year old got the protection rate with 62.22%, followed by dogs over 3 years old (81.48%); the highest rate was in dogs from 1-3 years old (90.74%). Domestic dog breeds had the immune response (72.94%) lower than foreign dog breeds had (86.76%). The rate of dogs harboring antibodies mutated depending on the time after vaccination; the longer time was, the lower protection rate was: under 6 months (91.80%), from 6 to 12 months (78.85%) and over 12 months (60.00%). The gender did not affect the capacity of immune generation in dogs after Rabies vaccination.

Key words: Antibodies, bats, chipmunks, dogs, mice, the Mekong Delta, rabies, rabies vaccines.