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Approved canine vaccines must be administered to dogs according to the manufacturers' recommendations either intramuscularly (IM) or subcutaneously (SC). Administration via other routes may reduce effectiveness or be unsafe. For species other than dogs, refer to the vaccine label.

A) MONOVALENT – INACTIVATED

Product	Licensed and Labeled For Use In	Approved for Use in Dogs in California?	Dosage	Route of Administration	Minimum Age at Primary Vaccination	Booster Recommendation
DEFENSOR 1 Product by: Zoetis License No. 190 Marketed by: Zoetis	Dogs Cats	**No**	1 ml	SC (cats)	3 months	Annually
DEFENSOR 3 DEFENSOR 3 CA Product by: Zoetis License No. 190 Marketed by: Zoetis	Dogs Cats	**Yes**	1 ml	IM or SC (dogs) SC (cats)	3 Months	1 year later, then triennially
DEFENSOR 3 DEFENSOR 3 CA Product by: Zoetis License No. 190 Marketed by: Zoetis	Sheep Cattle	N/A	2 ml	IM	3 Months	Annually

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Product	Licensed and Labeled For Use In	Approved for Use in Dogs in California?	Dosage	Route of Administration	Minimum Age at Primary Vaccination	Booster Recommendation
NOBIVAC 1 Produced by: Merck Animal Health License No. 190 Marketed by: Intervet Inc.	Dogs Cats	**No**	1 ml	SC (cats)	3 Months	Annually
NOBIVAC 3 NOBIVAC 3 CA Produced by: Merck Animal Health License No. 190 Marketed by: Intervet Inc.	Dogs Cats	**Yes**	1 ml	IM or SC (dogs) SC (cats)	3 Months	1 year later, then triennially
NOBIVAC 3 NOBIVAC 3 CA Produced by: Merck Animal Health License No. 190 Marketed by: Intervet Inc.	Sheep Cattle	N/A	2 ml	IM	3 Months	Annually
EQUI-RAB Produced by: Merck Animal Health License No. 165A Marketed by: Intervet Inc.	Horses	N/A	1 ml	IM	4 Months	Annually

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Product	Licensed and Labeled For Use In	Approved for Use in Dogs in California?	Dosage	Route of Administration	Minimum Age at Primary Vaccination	Booster Recommendation
RABVAC 1 Produced by: Elanco License No. 196 Marketed by: Elanco	Dogs Cats	**No**	1 ml	IM or SC (cats)	3 Months	Annually
RABVAC 3 Produced by: Elanco License No. 196 Marketed by: Elanco	Dogs Cats	**Yes**	1 ml	IM or SC	3 Months	1 year later, then triennially
RABVAC 3 Produced by: Elanco License No. 196 Marketed by: Elanco	Horses	N/A	2 ml	IM	3 Months	Annually
IMRAB 3 Produced by: Merial Inc. License No. 298 Marketed by: Merial Inc.	Dogs Cats Ferrets	**Yes**	1 ml	IM or SC (dogs, cats) SC (ferrets)	12 weeks	1 year later, then triennially
IMRAB 3 Produced by: Merial Inc. License No. 298 Marketed by: Merial Inc.	Sheep Cattle Horses	N/A	2 ml	IM or SC	12 Weeks	1 year later, then triennially

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Product	Licensed and Labeled For Use In	Approved for Use in Dogs in California?	Dosage	Route of Administration	Minimum Age at Primary Vaccination	Booster Recommendation
IMRAB 3 TF Produced by: Merial Inc. License No. 298 Marketed by: Merial Inc.	Dogs Cats	**Yes**	1 ml	IM or SC	12 weeks	1 year later, then triennially
IMRAB 3 TF Produced by: Merial Inc. License No. 298 Marketed by: Merial Inc.	Ferrets	N/A	1 ml	SC	12 Weeks	Annually
IMRAB Large Animal Produced by: Merial Inc. License No. 298 Marketed by: Merial Inc.	Horses Cattle	N/A	2 ml	IM or SC	3 Months	Annually
IMRAB Large Animal Produced by: Merial Inc. License No. 298 Marketed by: Merial Inc.	Sheep	N/A	2 ml	IM or SC	3 Months	1 year later, then triennially

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Product	Licensed and Labeled For Use In	Approved for Use in Dogs in California?	Dosage	Route of Administration	Minimum Age at Primary Vaccination	Booster Recommendation
IMRAB 1 Produced by: Merial Inc. License No. 298 Marketed by: Merial Inc.	Dogs Cats	**No**	1 ml	SC (cats)	12 Weeks	Annually
IMRAB 1 TF Produced by: Merial Inc. License No. 298 Marketed by: Merial Inc.	Dogs Cats	**No**	1 ml	SC (cats)	12 Weeks	Annually

B) MONOVALENT- RABIES GLYCOPROTEIN, LIVE CANARY POX VECTOR

Product	Licensed and Labeled For Use In	Approved for Use in Dogs in California?	Dosage	Route of Administration	Minimum Age at Primary Vaccination	Booster Recommendation
PUREVAX Feline Rabies Produced by: Merial Inc. License No. 298 Marketed by: Merial Inc.	Cats	N/A	1 ml	SC	12 weeks	Annually

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C) COMBINATION - INACTIVATED RABIES

Product	Licensed and Labeled For Use In	Approved for Use in Dogs in California?	Dosage	Route of Administration	Minimum Age at Primary Vaccination	Booster Recommendation
EQUINE POTOMAVAC + IMRAB Produced by: Merial Inc. License No. 298 Marketed by: Merial Inc.	Horses	N/A	1 ml	IM	3 months	Annually

D) COMBINATION – RABIES GLYCOPROTEIN, LIVE CANARY POX VECTOR

Product	Licensed and Labeled For Use In	Approved for Use in Dogs in California?	Dosage	Route of Administration	Minimum Age at Primary Vaccination	Booster Recommendation
PUREVAX FELINE 3/ RABIES Produced by: Merial Inc. License No. 298 Marketed by: Merial Inc.	Cats	N/A	1 ml	SC	8 weeks	3-4 weeks later, then annually
PUREVAX FELINE 4/ RABIES Produced by: Merial Inc. License No. 298 Marketed by: Merial Inc.	Cats	N/A	1 ml	SC	8 weeks	3-4 weeks later, then annually

Adapted from the Compendium of Animal Rabies Prevention and Control, 2011,
National Association of State Public Health Veterinarians, Incorporated
Rev. 10/15/13, 12/31/13, 4/25/17, 3/14/19, 9/1/20